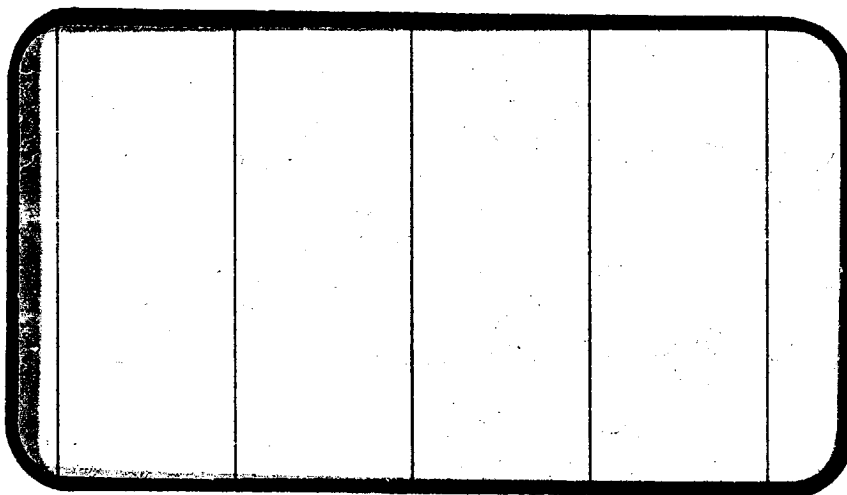


**NASA**

**NATIONAL AERONAUTICS AND SPACE ADMINISTRATION**

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(NASA-CR-134102) CONTINUED INVESTIGATIONS  
IN THE NAAL LOW SPEED WIND TUNNEL INTO  
THE EFFECTS OF THE AIR BREATHING  
PROPULSION SYSTEM ON ORBITER (Chrysler  
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**SPACE SHUTTLE**

**AEROTHERMODYNAMIC DATA REPORT**



**JOHNSON SPACE CENTER**

**HOUSTON, TEXAS**

**DATA MANAGEMENT** services

SPACE DIVISION



**CHRYSLER**  
CORPORATION

May, 1974

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NASA CR-134,102

CONTINUED INVESTIGATIONS IN THE NAAL LOW SPEED  
WIND TUNNEL INTO THE EFFECTS OF THE  
AIR BREATHING PROPULSION SYSTEM ON ORBITER  
SUBSONIC STABILITY AND CONTROL CHARACTERISTICS (OA62A)

by

Robert Mennell  
Rockwell International/Space Division

Prepared under NASA Contract Number NAS9-13247

by

Data Management Services  
Chrysler Corporation Space Division  
New Orleans, La. 70189

for

Engineering Analysis Division  
Johnson Space Center  
National Aeronautics and Space Administration  
Houston, Texas

WIND TUNNEL TEST SPECIFICS:

Test Number: NAAL 715  
NASA Series Number: OA62A  
Model Number: 43-0  
Test Date: 5 through 23 October 1973

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CONTINUED INVESTIGATIONS IN THE NAAL LOW SPEED

WIND TUNNEL INTO THE EFFECTS OF THE

AIR BREATHING PROPULSION SYSTEM ON ORBITER

SUBSONIC STABILITY AND CONTROL CHARACTERISTICS (OA62A)

By Robert Mennell, Rockwell International/Space Division

ABSTRACT

Experimental aerodynamic investigations were conducted on a sting-mounted 0.0405-scale representation (model 43-0) of the 140A/B Space Shuttle Orbiter in the Rockwell International 7.75- by 11.00-Foot Low Speed Wind Tunnel during the time period from October 5, 1973 to October 23, 1973. The NASA designation for this test was OA62A.

The primary test objective was to continue studies, initiated on tests OA16 and OA71A and OA71C, in optimizing the air breathing propulsion system (ABPS) and investigating the aerodynamic effects of various nacelle number/location configurations on the orbiter stability and control characteristics.

The various ABPS configurations tested all were of the short cowl, short diverter, 7° cowl lip angle, and 7° diverter lip angle design and, with the exception of the centerline nacelle, were toed-in 5° relative to freestream. The centerline nacelle was always parallel to freestream. The various nacelle number/location groupings were as follows: 1) Five single nacelles located underwing; 2) Six single nacelles located underwing; 3) Five nacelles, one single centerline and two pods of two nacelles located underwing; 4) Six nacelles, three pods of two nacelles located underwing;



5) Six nacelles, three pods of two nacelles, one centerline underwing, two overwing; 6) Six single nacelles, four located underwing, two located on aft fuselage sidewalls. In addition to the aforementioned nacelle variations different pylon heights and nacelle fuselage station locations were also tested.

Orbiter stability and control characteristics, both with and without ABPS, were investigated at elevon deflections of  $0^\circ$ ,  $\pm 5^\circ$ ,  $\pm 10^\circ$ ,  $\pm 15^\circ$ , and  $-20^\circ$ ; aileron deflections of  $0^\circ$  and  $10^\circ$  (about  $0^\circ$  elevon); and rudder deflections of  $0^\circ$ ,  $-7.5^\circ$ , and  $-15^\circ$ . Aerodynamic force and moment data was measured in the body axis system by a 2.5-inch Task type internal balance. The model was sting supported through the base region with a nominal angle of attack range of  $-4 \leq \alpha \leq 30^\circ$ . Yaw polars were recorded over the beta range of  $-10 \leq \beta \leq 10^\circ$  at fixed angles of attack of  $0^\circ$ ,  $5^\circ$ ,  $10^\circ$ , and  $15^\circ$ .

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COEFFICIENT SCHEDULE:

- A: CL, CD, CDF, CA, CAF, CAB, CN, CLMFWD, CLMAFT,  
XCP/L, L/D, VS. ALPHA  
CL, CN VS. CLMFWD  
CL VS. CD
- B: CYNFWD, CBL, CY VS. BETA  
CYNBET, CBLBET, CYBETA VS. ALPHA



# NOMENCLATURE General

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
a		speed of sound; m/sec, ft/sec
C <sub>p</sub>	CP	pressure coefficient; $(p_1 - p_\infty)/q$
M	MACH	Mach number; $V/a$
p		pressure; $N/m^2$ , psf
q	Q(NSM) Q(PSF)	dynamic pressure; $1/2\rho V^2$ , $N/m^2$ , psf
RN/L	RN/L	unit Reynolds number; per m, per ft
V		velocity; m/sec, ft/sec
$\alpha$	ALPHA	angle of attack, degrees
$\beta$	BETA	angle of sideslip, degrees
$\psi$	PSI	angle of yaw, degrees
$\phi$	PHI	angle of roll, degrees
$\rho$		mass density; $kg/m^3$ , slugs/ft <sup>3</sup>
<u>Reference &amp; C.G. Definitions</u>		
A <sub>b</sub>		base area; m <sup>2</sup> , ft <sup>2</sup>
b	BREF	wing span or reference span; m, ft
c.g.		center of gravity
$\bar{c}$	LREF	reference length or wing mean aerodynamic chord; m, ft
S	SREF	wing area or reference area; m <sup>2</sup> , ft <sup>2</sup>
	MRP	moment reference point
	XMRP	moment reference point on X axis
	YMRP	moment reference point on Y axis
	ZMRP	moment reference point on Z axis

## SUBSCRIPTS

b	base
l	local
s	static conditions
t	total conditions
$\infty$	free stream

# NOMENCLATURE (Continued)

## Body-Axis System

<u>SYMBOL</u>	<u>SADSAC SYMBOL</u>	<u>DEFINITION</u>
$C_N$	CN	normal-force coefficient; $\frac{\text{normal force}}{qS}$
$C_A$	CA	axial-force coefficient; $\frac{\text{axial force}}{qS}$
$C_Y$	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
$C_{A_b}$	CAB	base-force coefficient; $\frac{\text{base force}}{qS}$ $-A_b(P_b - P_\infty)/qS$
$C_{A_f}$	CAF	forebody axial force coefficient, $C_A - C_{A_b}$
$C_m$	CIM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS_{REF}}$
$C_n$	CYN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qS_b}$
$C_l$	CBL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qS_b}$

## Stability-Axis System

$C_L$	CL	lift coefficient; $\frac{\text{lift}}{qS}$
$C_D$	CD	drag coefficient; $\frac{\text{drag}}{qS}$
$C_{D_b}$	CDB	base-drag coefficient; $\frac{\text{base drag}}{qS}$
$C_{D_f}$	CDF	forebody drag coefficient; $C_D - C_{D_b}$
$C_Y$	CY	side-force coefficient; $\frac{\text{side force}}{qS}$
$C_m$	CIM	pitching-moment coefficient; $\frac{\text{pitching moment}}{qS_{REF}}$
$C_n$	CIN	yawing-moment coefficient; $\frac{\text{yawing moment}}{qS_b}$
$C_l$	CSL	rolling-moment coefficient; $\frac{\text{rolling moment}}{qS_b}$
$L/D$	L/D	lift-to-drag ratio; $C_L/C_D$

NOMENCLATURE (Continued)  
Additions To Standard List

<u>Symbol</u>	<u>Plot Symbol</u>	<u>Description</u>
$A_B$		area of model base (without OMS pods), $ft^2$
$A_{BC}$		area of balance cavity, $ft^2$
$C_{A_{BC}}$		balance cavity axial-force coefficient correction
$C_{A_N}$		nacelle internal duct drag axial-force coefficient correction
$C_{A_T}$		model weight tare axial-force coefficient correction
$C_{m_N}$		nacelle internal duct drag pitching-moment coefficient correction
$P_{BC}$		balance cavity pressure, psia
$P_{B1, \dots, 5}$		model base pressure at stations 1, ..., 5 respectively, psia
$\delta_a$	AILRON	aileron deflection angle, degrees
$\delta_e$	ELEVON	elevon deflection angle, degrees
$\delta_f$	BDFLAP	body flap deflection angle, degrees
$\delta_r$	RUDDER	rudder deflection angle, degrees
NAC X//	NACX/L	nacelle longitudinal location given as fraction of nacelle length from nominal position given on Dimensional Data sheet
NAC $\beta$		nacelle toe-in angle, degrees
NAC Lip		nacelle cowl lip angle
Outbd Sta		longitudinal station of outboard nacelle location

## CONFIGURATIONS INVESTIGATED

The model used for this test period was an 0.0405-scale representation of the Rockwell International 140A/B Space Shuttle Orbiter. The basic model is of the blended wing-body design utilizing a double delta wing ( $75^\circ/45^\circ_{L.E.}$ ), full span elevons (unswept hingeline), a centerline vertical tail with rudder and/or rudder flare capability, a canopy, and an orbital maneuvering system (OMS). To test the orbiter in the ferry mission configuration the OMS pods are removed and air breathing engines are located in various number/location combinations on the wing and fuselage.

During the air breathing propulsion system (ABPS) testing the left hand engine pod was instrumented with an 8 tube static pressure and 17 tube total pressure rake located at each engine face station. This pressure instrumentation was used to determine engine pressure recovery and to check on the repeatability of nacelle inlet assembly.

For this test period the following nomenclature was used to designate the various model components.

<u>Component</u>	<u>Description</u>
B <sub>26</sub>	140A/B Baseline Fuselage
C <sub>9</sub>	140A/B Baseline Canopy
E <sub>26</sub>	Full Span Elevon used on Wing W <sub>116</sub>
F <sub>8</sub>	Body Flap used on fuselage B <sub>26</sub>
J <sub>43+58</sub>	Air Breathing Propulsion System consisting of various nacelle number/location combinations. See dimensional data

$R_5$	Rudder used on Vertical Tail $V_8$
$V_8$	140A/B Baseline Vertical Tail
$W_{116}$	140A/B Baseline Double Delta Wing ( $75^\circ/45^\circ$ $\Lambda_{L.E.}$ ) $S_w = 2690 \text{ ft}^2$
$X_{9+10}$	Transition Grit located on model nose, swept surfaces, and APBS

## TEST FACILITY DESCRIPTION

The North American Aerodynamics Laboratory (NAAL) 7.75 x 11-Foot Wind Tunnel is a continuous flow, closed circuit, single return type tunnel capable of speeds up to 200 miles per hour. The test section is vented to atmospheric pressure and is 7.75 x 11 feet wide by 12 feet in length. Power is supplied by a 1250 horsepower nacelle mounted synchronous motor driving a 19 foot, seven blade, laminated birch propeller. The airspeed is controlled by varying the degree of coupling between the motor and propeller by means of a magnetic clutch. A damping screen and honeycomb section in the settling chamber upstream from the contraction cone (ratio 7.53 to 1) minimizes turbulence in the test section. The NAAL Wind Tunnel has been in operation since June 1943 and calibrations are available over a wide range of test conditions.

Tests may be conducted using a variety of mounting systems, e.g.; a single strut, double strut, sting strut, reflection plane, cable suspension, and two dimensional wall. Aerodynamic data may be measured by a planar type external balance system or sting mounted internal balances. An Astro-data Automatic Data Acquisition System is used to collect, multiplex, digitize, and record 50 channels of force and/or pressure data on magnetic tape. This data is then rapidly reduced and plotted using automatic data processing equipment and an automatic digital plotter.

## DATA REDUCTION

The aerodynamic force and moment data presented were measured by the Task Corporation 2.5-inch MK IX strain gage balance. The data have been corrected for model base and balance chamber pressure effects, nacelle internal drag, model blockage influence on tunnel dynamic pressure, wall interference effects, sting and balance deflections, and model weight tare.

The corrections made to axial force were accomplished in the following manner:

$$C_{A_F} = C_A - C_{A_{BC}} - C_{A_B} - C_{A_N} - C_{A_T}$$

where

$$C_{A_{BC}} = - \left( \frac{P_{BC} - P_o}{q} \right) \left( \frac{A_{BC}}{S_w} \right)$$

and

$$C_{A_B} = - \left( \frac{P_B - P_o}{q} \right) \left( \frac{A_B}{S_w} \right), \quad P_B = 1/5 (P_{B1} + \dots + P_{B5})$$

and

$$C_{A_N} = \text{nacelle internal drag correction}$$

$$C_{A_T} = \text{model axial force weight tare}$$

The following reference dimensions were used for reducing all aerodynamic data to coefficient form:

<u>Symbol</u>	<u>Definition</u>	<u>Value</u>
$A_B$	area of base, ft <sup>2</sup> (without OMS)	0.4400
$A_{BC}$	area of balance cavity, ft <sup>2</sup>	0.9850
$S_w$	area of wing, ft <sup>2</sup>	4.4120

XMRP	center of gravity, fus. sta.	43.5974
ZMRP	center of gravity, waterplane	16.2000
$L_B$	length orbiter body, in	52.2570
$\bar{c}_w$ (LREF)	wing MAC, in	19.2300
$\bar{b}_w$ (BREF)	wing span, in	37.9360
$C_{A_N}$	axial force correction for nacelle internal drag, $J_{43 \rightarrow 48, 51 \rightarrow 53, 56 \rightarrow 58}$	0.00247
	$J_{44, 50, 54, 55}$	0.00206
$C_{m_N}$	pitching moment correction for nacelle internal drag, $J_{43}$	0.00082
	$J_{44}$	0.00087
	$J_{45}$	0.00025
	$J_{46}$	0.00036
	$J_{47}$	0.00070
	$J_{48, 51, 56}$	0.00074
	$J_{49}$	0.00067
	$J_{50, 54, 55}$	0.00066
	$J_{52, 53}$	0.00042
	$J_{57}$	0.00049
	$J_{58}$	0.00054



TABLE I.

[illegible]

TABLE II.

TEST: OAG2(NRAAL715)										DATA SET/RUN NUMBER COLLATION SUMMARY										DATE: 10/23/75	
DATA SET IDENTIFIER		CONFIGURATION		SCHD.		PARAMETERS/VALUES										NO. OF RUNS		MACH NUMBERS			

**TABLE II. - Continued.**

TEST: OA62 (NAAL 715)

DATE: 10/2/73

DATA SET / RUN NUMBER COLLATION SUMMARY

DATA SET IDENTIFIER	CONFIGURATION	SCMD.		PARAMETERS/VALUES										NO. OF RUNS	MACH NUMBERS		
		$\alpha$	$\beta$	$\delta_1$	$\delta_2$	$\delta_3$	$\delta_4$	$\delta_5$	$\delta_6$	$\delta_7$	$\delta_8$	$\delta_9$	$\delta_{10}$		$\delta_{11}$	$\delta_{12}$	
RDW019	B <sub>2</sub> C <sub>9</sub> F <sub>8</sub> J <sub>43</sub> N <sub>16</sub> E <sub>26</sub> V <sub>8</sub> R <sub>34</sub>	10	C	11.7	0	0	0	0	0	0	0	5	7	950	950	1	19
1-20		A	O												1050		20
1		O	C														21
2		10	C														22
3	J <sub>44</sub>	A	O														23
4		O	C														24
5		10	C														25
6		A	O												950		26
7		O	C														27
8		10	C														28
9	J <sub>46</sub>	A	O														29
30		O	C														30
1		10	C														31
2	J <sub>45</sub>	A	O														32
3		O	C														33
4		10	C														34
5	J <sub>48</sub>	A	O														35
6		O	C														36

TEST RUN NUMBERS

75 76

7

13

19

25

31

37

43

49

55

61

67

75 76

COEFFICIENTS

$\alpha$ : A = -4, -2, -1, 0, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100

OR  $\beta$

SCHEDULES

COEFFICIENTS

$\beta$ : C = -10, -5, 0, 5, 10

TABLE II. - Continued.

TEST: OA62 (NABL 715)										DATA SET/RUN NUMBER COLLATION SUMMARY															DATE: 10-2-76				
DATA SET IDENTIFIER		CONFIGURATION		SCHD.		PARAMETERS/VALUES										NO. OF RUNS		MACH NUMBERS		TEST RUN NUMBERS									
						</																							

TABLE II. - Continued.

TEST: 0A62 (NAEL 715)										DATA SET/RUN NUMBER COLLATION SUMMARY										DATE: 10-5-70												
DATA SET IDENTIFIER	CONFIGURATION	SCHD.	PARAMETERS/VALUES										NO. OF RUNS	MACH NUMBERS										TEST RUN NUMBERS								
			$\alpha$	$\beta$	$\delta a$	$\delta b$	$\delta c$	$\delta d$	$\delta e$	$\delta f$	$\delta g$	$\delta h$		200	201	202	203	204	205	206	207	208										
ROW 55	B <sub>2</sub> C <sub>1</sub> F <sub>1</sub> J <sub>53</sub> W <sub>1</sub> E <sub>2</sub> W <sub>1</sub> E <sub>2</sub>	10	C	C	11.7	0	0	0	0	0	0	0	0	1	55																	
6	J <sub>50</sub>	A	O	C											56																	
7	J <sub>51</sub>	O	C												57																	
8	J <sub>52</sub>	10	C												58																	
9	J <sub>54</sub>	A	O												59																	
60	J <sub>55</sub>	A	O												60																	
1	J <sub>56</sub>	O	C												61																	
2	J <sub>57</sub>	10	C												62																	
3	J <sub>58</sub>	A	O												63																	
4		O	C												64																	
5		10	C												65																	
6		A	O												66																	
7		O	C												67																	
8		10	C												68																	
9	J <sub>57</sub>	A	O												69																	
70		O	C												70																	
1		10	C												71																	
2	J <sub>58</sub>	A	O												72																	
			COEFFICIENTS										Q: C = -10-5, 5, 10										75-76									
			SCHEMATIC										ALPHA										ALPHA									
			FAE										NACH										NACH									
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$\alpha: A = -4.2-1.0, 1.2$  COEFFICIENTS

$Q: C = -10-5, 5, 10$

OR  $\beta$  SCHEDULES



### TABLE II. - Concluded.

**22**

TABLE III - MODEL DIMENSIONAL DATA

MODEL COMPONENT : BODY - B26

GENERAL DESCRIPTION : Orbiter fuselage - Configuration 140 A/B.

MODEL SCALE: 0.0405

DRAWING NUMBER : VL70-000193, VL70-000140A

DIMENSIONS :	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length (Body Nose @ $X_0 = 238.0$ IN.)	<u>1290.30</u>	<u>52.257</u>
Max Width ( $X_0 = 1520$ In.) - In.	<u>262.00</u>	<u>10.611</u>
Max Depth ( $X_0 = 1464$ In.) - In.	<u>250.00</u>	<u>10.125</u>
Fineness Ratio	<u>4.925</u>	<u>4.925</u>
Area - Ft. <sup>2</sup>	<u>          </u>	<u>          </u>
Max. Cross-Sectional	<u>340.88</u>	<u>0.559</u>
Planform	<u>          </u>	<u>          </u>
Wetted	<u>          </u>	<u>          </u>
Base	<u>          </u>	<u>          </u>



TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT : ELEVON - E26

GENERAL DESCRIPTION : Orbiter elevon configuration used on

WING - W116

MODEL SCALE: 0.0405

DRAWING NUMBER : VL70-000400, VL70-000140B

DIMENSIONS	FULL SCALE	MODEL SCALE
Area - Ft. <sup>2</sup>	<u>223.58</u>	<u>0.367</u>
Span (equivalent) - In.	<u>368.34</u>	<u>14.918</u>
Inb'd equivalent chord - In.	<u>119.62</u>	<u>4.845</u>
Outb'd equivalent chord - In.	<u>55.14</u>	<u>2.235</u>
Ratio movable surface chord/ total surface chord	<u>          </u>	<u>          </u>
At Inb'd equiv. chord	<u>0.210</u>	<u>0.210</u>
At Outb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
Sweep Back Angles, degrees	<u>          </u>	<u>          </u>
Leading Edge	<u>0.000</u>	<u>0.000</u>
Trailing Edge	<u>- 10.056</u>	<u>- 10.056</u>
Hingeline	<u>0.000</u>	<u>0.000</u>
Area Moment (Normal to hinge line) Ft. <sup>3</sup>	<u>851.15</u>	<u>0.057</u>

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT : CANOPY - C<sub>9</sub>

GENERAL DESCRIPTION : Orbiter canopy - Configuration used on body  
B26.

MODEL SCALE : 0.0405

DRAWING NUMBER : VL70-000140A, VL70-000143A

DIMENSIONS :	FULL SCALE	MODEL SCALE
Length ( $X_0 = 434.64$ 670.00) - In.	<u>235.36</u>	<u>9.532</u>
Max Width ( $X_0 = 513.13$ ) - In.	<u>152.41</u>	<u>6.173</u>
Max Depth ( $X_0 = 485.00$ ) - In.	<u>25.00</u>	<u>1.013</u>
Fineness Ratio	<u>          </u>	<u>          </u>
Area	<u>          </u>	<u>          </u>
Max. Cross-Sectional	<u>          </u>	<u>          </u>
Planform	<u>          </u>	<u>          </u>
Wetted	<u>          </u>	<u>          </u>
Base	<u>          </u>	<u>          </u>

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT : BODY FLAP - F8

GENERAL DESCRIPTION : Orbiter body flap configuration used on

BODY - B26

MODEL SCALE: 0.0405

DRAWING NUMBER: VL70-000140B, VL70-0001400

DIMENSIONS :

	FULL SCALE	MODEL SCALE
Length - In.	<u>94.86</u>	<u>3.842</u>
Max Width - In.	<u>262.31</u>	<u>10.623</u>
Max Depth - In.	<u>23.00</u>	<u>0.932</u>
Fineness Ratio	<u></u>	<u></u>
Area - Ft. <sup>2</sup>	<u></u>	<u></u>
Max. Cross-Sectional	<u></u>	<u></u>
Planform	<u>158.85</u>	<u>0.261</u>
Wetted	<u></u>	<u></u>
Base	<u>41.90</u>	<u>0.069</u>

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: AIR BREATHING PROPULSION SYSTEM - J43

GENERAL DESCRIPTION: Six underwing engines installed in three nacelle pods. Inlet has short cowl, 7° cowl lip angle, short flow diverter, and 7° diverter lip angle. Baseline engine position @ F.S. 950.

MODEL SCALE: 0.0405

DRAWING NO.: SS-A00139

DIMENSION (EACH NACELLE):

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length - In.	<u>209.51</u>	<u>8.485</u>
Max. Width - In.	<u>66.00</u>	<u>2.673</u>
Max. Depth - In.	<u>66.00</u>	<u>2.673</u>
Max. Pylon Width, In.	<u>19.75</u>	<u>0.800</u>
Area - In. <sup>2</sup>		
Max. Cross-Sectional	<u>2737.30</u>	<u>4.490</u>
Capture	<u>1900.92</u>	<u>3.118</u>
Wetted	<u>          </u>	<u>          </u>
Base	<u>          </u>	<u>          </u>

\*Nacelle Sta. 0.0 @

	<u>WING PODS</u>		<u>Q PODS</u>	
	<u>Outboard</u>	<u>Inboard</u>	<u>Left</u>	<u>Right</u>
Model Sta. - In.	<u>38.475</u>	<u>38.475</u>	<u>38.475</u>	<u>38.475</u>
Waterplane - In.	<u>9.665</u>	<u>9.665</u>	<u>9.310</u>	<u>9.310</u>
Buttock Plane - In.	<u>+ 11.583</u>	<u>+ 8.910</u>	<u>- 1.337</u>	<u>+ 1.337</u>
Incidence Angle - Deg.	<u>3.933</u>	<u>3.933</u>	<u>3.933</u>	<u>3.933</u>
Nacelle Clearance	<u>0.608</u>	<u>0.608</u>	<u>0.142</u>	<u>0.142</u>
Toe-In Angle	<u>5.000</u>	<u>5.000</u>	<u>0.0</u>	<u>0.0</u>

\*All numbers in model scale

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: AIR BREATHING PROPULSION SYSTEM - J44

GENERAL DESCRIPTION: Six underwing engines installed in three nacelle pods. Inlet has short cowl, 7° cowl lip angle, short flow diverter, and 7° diverter lip angle. Baseline engine position @ F.S. 950.

MODEL SCALE: 0.0405

MODEL DRAWING NO.: SS-A00139

DIMENSIONS (EACH NACELLE):

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length - In.	<u>209.51</u>	<u>8.485</u>
Max. Width - In.	<u>66.00</u>	<u>2.673</u>
Max. Depth - In.	<u>66.00</u>	<u>2.673</u>
Max. Pylon Width - In.	<u>19.75</u>	<u>0.800</u>
Area - In. <sup>2</sup>		
Max. Cross-Sectional	<u>2737.30</u>	<u>4.490</u>
Capture	<u>1900.92</u>	<u>3.118</u>
Wetted	<u>          </u>	<u>          </u>
Base	<u>          </u>	<u>          </u>

\*Nacelle Sta. 0.0 @  
Model Sta. - In.  
Waterplane - In.  
Buttock Plane - In.  
Incidence Angle - Deg.  
Nacelle Clearance  
Toe-In Angle

<u>WING PODS</u>		<u>G. PODS</u>	
<u>Outboard</u>	<u>Inboard</u>	<u>Left</u>	<u>Right</u>
38.475	38.475	38.475	38.475
9.665	9.665	9.310	9.310
+ 11.583	+ 8.910	- 1.337	+ 1.337
3.933	3.933	3.933	3.933
1.215	1.215	0.142	0.142
5.000	5.000	0.0	0.0

\*All numbers in model scale

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: AIR BREATHING PROPULSION SYSTEM - J45

GENERAL DESCRIPTION: Six engines installed in three nacelle pods, one  $\epsilon$  underwing, two overwing. Inlet has short cowl, 7° cowl lip angle, short flow diverter, and 7° diverter lip angle. Baseline engine position @ F.S. 950, C pod and 1050 wing pods.  
MODEL SCALE: 0.0405

MODEL DRAWING NO.: SS-A00139

DIMENSIONS (EACH NACELLE):

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length - In.	<u>209.51</u>	<u>8.485</u>
Max. Width - In.	<u>66.00</u>	<u>2.673</u>
Max. Depth - In.	<u>66.00</u>	<u>2.673</u>
Max. Pylon Width - In.	<u>19.75</u>	<u>0.800</u>
Area - In. <sup>2</sup>		
Max. Cross-Sectional	<u>2737.30</u>	<u>4.490</u>
Capture	<u>1900.92</u>	<u>3.118</u>
Wetted	<u>          </u>	<u>          </u>
Base	<u>          </u>	<u>          </u>

	<u>WING PODS</u>		<u><math>\epsilon</math> POD</u>	
*Nacelle Sta. 0.0 @	<u>Outboard</u>	<u>Inboard</u>	<u>Left</u>	<u>Right</u>
Model Sta. - In.	42.525	42.525	38.475	38.475
Waterplane - In.	16.967	16.967	9.310	9.310
Buttock Plane - In.	+ 11.583	+ 8.910	- 1.337	- 1.337
Incidence Angle - Deg.	3.933	3.933	3.933	3.933
Nacelle Clearance - In.	2.430	2.430	0.142	0.142
Toe-In Angle - Deg.	5.000	5.000	0.0	0.0

\*All numbers in model scale

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: AIR BREATHING PROPULSION SYSTEM - J<sub>46</sub>

GENERAL DESCRIPTION: Six engines installed in three nacelle pods, one C underwing, two overwing. Inlet has short cowl, 7° cowl lip angle, short flow diverter, and 7° diverter lip angle. Baseline engine position at F. S. 950 underwing and 1050 overwing.

MODEL SCALE: 0.0405

DRAWING NO.: SS-A00139

DIMENSIONS (EACH NACELLE):

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length - In.	<u>209.51</u>	<u>8.485</u>
Max. Width - In.	<u>66.00</u>	<u>2.673</u>
Max. Depth - In.	<u>66.00</u>	<u>2.673</u>
Max. Pylon Width, In.	<u>19.75</u>	<u>0.800</u>
Area - In. <sup>2</sup>		
Max. Cross-Sectional	<u>2737.30</u>	<u>4.490</u>
Capture	<u>1900.92</u>	<u>3.118</u>
Wetted	<u>          </u>	<u>          </u>
Base	<u>          </u>	<u>          </u>

\*Nacelle Sta. 0.0 @

	<u>OVERWING PODS</u>		<u>UNDERWING POD</u>	
	<u>Outboard</u>	<u>Inboard</u>	<u>Left</u>	<u>Right</u>
Model Sta. - In.	<u>42.525</u>	<u>42.525</u>	<u>38.475</u>	<u>38.475</u>
Waterplane - In.	<u>16.967</u>	<u>16.967</u>	<u>9.310</u>	<u>9.310</u>
Buttock Plane - In.	<u>+ 11.583</u>	<u>+ 8.910</u>	<u>- 1.337</u>	<u>+ 1.337</u>
Incidence Angle - Deg.	<u>3.933</u>	<u>3.933</u>	<u>3.933</u>	<u>3.933</u>
Nacelle Clearance - In.	<u>1.215</u>	<u>1.215</u>	<u>0.142</u>	<u>0.142</u>
Toe-In Angle - Deg.	<u>5.000</u>	<u>5.000</u>	<u>0.0</u>	<u>0.0</u>

\*All numbers in model scale

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: AIR BREATHING PROPULSION SYSTEM - J47

GENERAL DESCRIPTION: Six single engines installed underwing. Inlet has short cowl, 7° cowl lip angle, short flow diverter, 7° diverter lip angle.

MODEL SCALE: 0.0405

DRAWING NUMBER: SS-A00139

DIMENSIONS (EACH NACELLE):

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length - In.	<u>209.51</u>	<u>8.485</u>
Max. Width - In.	<u>166.00</u>	<u>2.673</u>
Max. Depth - In.	<u>66.00</u>	<u>2.673</u>
Max. Pylon Width - In.	<u>19.75</u>	<u>0.800</u>
Area - In. <sup>2</sup>		
Max. Cross-Sectional	<u>2737.30</u>	<u>4.490</u>
Capture	<u>1900.92</u>	<u>3.118</u>
Wetted	<u>          </u>	<u>          </u>
Base	<u>          </u>	<u>          </u>

\*Nacelle Sta. 0.0 @

	<u>WING ENG.</u>		<u>BODY ENG.</u>	
	<u>Outboard</u>	<u>Inboard</u>	<u>Left</u>	<u>Right</u>
Model Sta. - In.	<u>43.619</u>	<u>40.500</u>	<u>38.475</u>	<u>38.475</u>
Waterplane - In.	<u>9.621</u>	<u>9.230</u>	<u>9.270</u>	<u>9.270</u>
Incidence Angle - Deg.	<u>3.933</u>	<u>3.933</u>	<u>3.933</u>	<u>3.933</u>
Nacelle Clearance - In.	<u>0.608</u>	<u>0.608</u>	<u>0.243</u>	<u>0.243</u>
Toe-In Angle - Deg.	<u>5.000</u>	<u>5.000</u>	<u>0.0</u>	<u>0.0</u>
Butt Plane - In.	<u>± 12.920</u>	<u>± 8.910</u>	<u>- 2.228</u>	<u>2.228</u>

\*All numbers in model scale



TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: AIR BREATHING PROPULSION SYSTEM - J48

GENERAL DESCRIPTION: Six engines installed in three nacelle pods flush-mounted to underwing surface. Inlet has short cowl, 7° cowl lip angle, short flow diverter, and 7° diverter lip angle. Baseline engine position @ F.S. 950  $\epsilon$  and 1050 wing pods.

MODEL SCALE: 0.0405

DRAWING NO.: SS-A00139

DIMENSIONS (EACH NACELLE)	FULL SCALE	MODEL SCALE
Length - In.	<u>209.51</u>	<u>8.485</u>
Max. Width - In.	<u>66.00</u>	<u>2.673</u>
Max. Depth - In.	<u>66.00</u>	<u>2.673</u>
Max. Pylon Width - In.	<u>--</u>	<u>--</u>
Area - In. <sup>2</sup>		
Max. Cross-Sectional	<u>2737.30</u>	<u>4.490</u>
Capture	<u>1900.92</u>	<u>3.118</u>
Wetted	<u>          </u>	<u>          </u>
Base	<u>          </u>	<u>          </u>

\*Nacelle Sta. 0.0 @

	WING PODS		$\epsilon$ POD	
	Outboard	Inboard	Left	Right
Model Sta. - In.	42.525	42.525	38.475	38.475
Waterplane - In.	10.110	10.110	9.370	9.370
Buttock Plane - In.	+ 11.583	+ 8.910	- 1.337	+ 1.337
Incidence Angle - Deg.	0.0	0.0	0.0	0.0
Nacelle Clearance - In.	0.0	0.0	0.0	0.0
Toe-In Angle - Deg.	5.000	5.000	0.0	0.0

\*All numbers in model scale

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: AIR BREATHING PROPULSION SYSTEM - J49

GENERAL DESCRIPTION: Five engines installed underwing in two nacelle pods and one single centerline engine inlet has short cowl, 7° cowl lip angle, short flow diverter, 7° diverter lip angle. Baseline engine position @ 950 F.S.

MODEL SCALE: 0.0405

DRAWING NUMBER: SS-A00139

DIMENSIONS (EACH NACELLE):

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length - In.	<u>209.51</u>	<u>8.485</u>
Max. Width - In.	<u>66.00</u>	<u>2.673</u>
Max. Depth - In.	<u>66.00</u>	<u>2.673</u>
Max. Pylon Width - In.	<u>19.75</u>	<u>0.800</u>
Area - In. <sup>2</sup>		
Max. Cross-Sectional	<u>2737.30</u>	<u>4.490</u>
Capture	<u>1900.92</u>	<u>3.118</u>
Wetted	<u>          </u>	<u>          </u>
Base	<u>          </u>	<u>          </u>

<u>*Nacelle Sta. 0.0 @</u>	<u>WING PODS</u>		<u>ENGINE</u>
	<u>Outboard</u>	<u>Inboard</u>	<u>£</u>
Model Sta. - In.	<u>38.475</u>	<u>38.475</u>	<u>38.475</u>
Waterplane - In.	<u>9.665</u>	<u>9.665</u>	<u>9.310</u>
Buttock Plane - In.	<u>+ 11.583</u>	<u>+ 8.910</u>	<u>0.0</u>
Incidence Angle - Deg.	<u>3.933</u>	<u>3.933</u>	<u>3.933</u>
Nacelle Clearance - In.	<u>0.608</u>	<u>0.608</u>	<u>0.142</u>
Toe-In Angle - Deg.	<u>5.000</u>	<u>5.000</u>	<u>0.0</u>

\*All numbers in model scale

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: AIR BREATHING PROPULSION SYSTEM - J<sub>50</sub>

GENERAL DESCRIPTION: Five single engines installed underwing. Inlet has short cowl, 7° cowl lip angle, short flow diverter, 7° diverter lip angle.

MODEL SCALE: 0.0405

DRAWING NO.: SS-A00139

DIMENSIONS (EACH MACELLE):

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length - In.	<u>209.51</u>	<u>8.485</u>
Max. Width - In.	<u>66.00</u>	<u>2.673</u>
Max. Depth - In.	<u>66.00</u>	<u>2.673</u>
Max. Pylon Width - In.	<u>19.75</u>	<u>0.800</u>
Area - In. <sup>2</sup>		
Max. Cross-Sectional	<u>2737.30</u>	<u>4.490</u>
Capture	<u>1900.92</u>	<u>3.118</u>
Wetted	<u>          </u>	<u>          </u>
Base	<u>          </u>	<u>          </u>

	<u>WING ENGINE</u>		<u>BODY ENGINE</u>
<u>*Macelle Sta. 0.0 @</u>	<u>Outboard</u>	<u>Inboard</u>	<u>Centerline</u>
Model Sta. - In.	+ 40.500	+ 36.450	38.475
Waterplane - In.	9.621	9.230	9.310
Buttock Plane - In.	+ 12.920	+ 8.990	0.0
Incidence Angle - Deg.	3.933	3.933	3.933
Macelle Clearance - In.	0.608	0.608	0.142
Toe-In Angle - Deg.	5.000	5.000	0.0

\*All numbers in model scale

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: AIR BREATHING PROPULSION SYSTEM - J<sub>51</sub>

GENERAL DESCRIPTION: Six engines installed in three nacelle pods flush mounted to underwing surface. Inlet has short cowl, 7° cowl up angle, short flow diverter, and 7° diverter lip angle. Baseline engine position @ F.S. 440 c<sub>pod</sub> and F.S. 1100 wing pods.

MODEL SCALE: 0.0405

DRAWING NO.: SS-A00139

DIMENSIONS (EACH NACELLE):

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length - In.	<u>209.51</u>	<u>8.485</u>
Max. Width - In.	<u>66.00</u>	<u>2.673</u>
Max. Depth - In.	<u>66.00</u>	<u>2.673</u>
Max. Pylon Width - In.		
Area - In. <sup>2</sup>		
Max. Cross-Sectional	<u>2737.30</u>	<u>4.490</u>
Capture	<u>1900.92</u>	<u>3.118</u>
Wetted		
Base		

\*Nacelle Sta.0.00

	<u>Wing PODS</u>		<u>c<sub>POD</sub></u>	
	<u>Outboard</u>	<u>Inboard</u>	<u>Left</u>	<u>Right</u>
Model Sta. - In.	44.550	44.550	17.820	17.820
Waterplane - In.	10.110	10.110	9.370	9.370
Buttock Plane - In.	± 11.583	± 8.910	- 1.337	+ 1.337
Incidence Angle - Deg.	0.0	0.0	0.0	0.0
Nacelle Clearance - In.	0.0	0.0	0.0	0.0
Toe-In Angle - Deg.	5.000	5.000	0.0	0.0

\*All numbers in model scale

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: AIR BREATHING PROPULSION SYSTEM - J52GENERAL DESCRIPTION: Six engines installed in three nacelle pods, flush-mounted. One underwing @ Sta. 950 and two overwing at Sta. 1100. Inlet has short cowl, 7° cowl lip angle, short flow diverter, 7° diverter lip angle.

MODEL SCALE: 0.0405

DRAWING NO.: SS-A00139

DIMENSIONS (EACH NACELLE):

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length - In.	<u>209.51</u>	<u>8.485</u>
Max. Width - In.	<u>66.00</u>	<u>2.673</u>
Max. Depth - In.	<u>66.00</u>	<u>2.673</u>
Max. Pylon Width - In.	<u>--</u>	<u>--</u>
Area - In. <sup>2</sup>		
Max. Cross-Sectional	<u>2737.30</u>	<u>4.490</u>
Capture	<u>1900.92</u>	<u>3.118</u>
Wetted	<u>          </u>	<u>          </u>
Base	<u>          </u>	<u>          </u>

\*Nacelle Sta. 0.0 @

Model Sta. - In.

Waterplane - In.

Buttock Plane - In.

Incidence Angle - Deg.

Nacelle Clearance - Deg.

Toe-In Angle - Deg.

## WING PODS

## C. POD

<u>Outboard</u>	<u>Inboard</u>	<u>Left</u>	<u>Right</u>
<u>44.550</u>	<u>44.550</u>	<u>38.475</u>	<u>38.475</u>
<u>14.534</u>	<u>14.534</u>	<u>9.370</u>	<u>9.370</u>
<u>± 11.583</u>	<u>± 8.910</u>	<u>- 1.337</u>	<u>+ 1.337</u>
<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
<u>5.000</u>	<u>5.000</u>	<u>0.0</u>	<u>0.0</u>

\*All numbers in model scale

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: AIR BREATHING PROPULSION SYSTEM - J53

GENERAL DESCRIPTION: Six engines installed in three nacelle pods, flush-mounted. One underwing at Sta. 440 and two overwing at Sta. 1100. Inlet has short cowl, 7° cowl lip angle, short flow diverter, 7° diverter lip angle.

MODEL SCALE: 0.0405

DRAWING NO.: SS-A00139

DIMENSIONS (EACH NACELLE):

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length - In.	<u>209.51</u>	<u>8.485</u>
Max. Width - In.	<u>66.00</u>	<u>2.673</u>
Max. Depth - In.	<u>66.00</u>	<u>2.673</u>
Max. Pylon Width - In.	<u>--</u>	<u>--</u>
Area - In. <sup>2</sup>		
Max. Cross-Sectional	<u>2737.30</u>	<u>4.490</u>
Capture	<u>1900.92</u>	<u>3.118</u>
Wetted	<u>          </u>	<u>          </u>
Base	<u>          </u>	<u>          </u>

\*Nacelle Sta. 0.0 @

Model Sta. - In.  
Waterplane - In.  
Buttock Plane - In.  
Incidence Angle - Deg.  
Nacelle Clearance - Deg.  
Toe-In Angle - Deg.

<u>OVERWING PODS</u>		<u>UNDERWING POD</u>	
<u>Outboard</u>	<u>Inboard</u>	<u>Left</u>	<u>Right</u>
<u>44.550</u>	<u>44.550</u>	<u>17.820</u>	<u>17.820</u>
<u>14.534</u>	<u>14.534</u>	<u>9.370</u>	<u>9.370</u>
<u>+ 11.583</u>	<u>+ 8.910</u>	<u>- 1.337</u>	<u>+1.337</u>
<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
<u>5.000</u>	<u>5.000</u>	<u>0.0</u>	<u>0.0</u>

\*All numbers in model scale

TABLE III . - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: AIR BREATHING PROPULSION SYSTEM - J54

GENERAL DESCRIPTION: Five single engines installed underwing. Inlet has short cowl, 7 cowl lip angle, short flow diverter, 7 diverter lip angle.  
Pylon brace struts have been added to pylons. See installation photographs.

MODEL SCALE: 0.0405

DRAWING NO.: SS-A00139

DIMENSIONS (EACH NACELLE):

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length - In.	<u>209.51</u>	<u>8.485</u>
Max. Width - In.	<u>66.00</u>	<u>2.673</u>
Max. Depth - In.	<u>66.00</u>	<u>2.673</u>
Max. Pylon Width - In.	<u>19.75</u>	<u>0.800</u>
Area - In. <sup>2</sup>		
Max. Cross-Sectional	<u>2737.30</u>	<u>4.490</u>
Capture	<u>1900.92</u>	<u>3.118</u>
Wetted	<u>          </u>	<u>          </u>
Base	<u>          </u>	<u>          </u>

	<u>WING ENGINE</u>		<u>BODY ENGINE</u>
<u>*Nacelle Sta. 0.0 @</u>	<u>Outboard</u>	<u>Inboard</u>	<u>Centerline</u>
<u>Model Sta. 0.0 @</u>	<u>+ 40.500</u>	<u>+ 36.450</u>	<u>38.475</u>
<u>Waterplane - In.</u>	<u>9.621</u>	<u>9.230</u>	<u>9.310</u>
<u>Buttock Plane - In.</u>	<u>+ 12.920</u>	<u>+ 8.990</u>	<u>0.0</u>
<u>Incidence Angle - Deg.</u>	<u>3.933</u>	<u>3.933</u>	<u>3.933</u>
<u>Nacelle Clearance -In.</u>	<u>0.608</u>	<u>0.608</u>	<u>0.142</u>
<u>Toe-In Angle - Deg.</u>	<u>5.000</u>	<u>5.000</u>	<u>0.0</u>

\*All numbers in model scale

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: AIR BREATHING PROPULSION SYSTEM - J55

GENERAL DESCRIPTION: Five single engines installed underwing. Inlet has short cowl, 7 cowl lip angle, short flow diverter, 7 diverter lip angle.

MODEL SCALE: 0.0405

DRAWING NO.: SS-A00139

DIMENSIONS (EACH NACELLE):

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length - In.	<u>209.51</u>	<u>8.485</u>
Max. Width - In.	<u>66.00</u>	<u>2.673</u>
Max. Depth - In.	<u>66.00</u>	<u>2.673</u>
Max. Pylon Width - In.	<u>55.00</u>	<u>2.228</u>
Area - In. <sup>2</sup>		
Max. Cross-Sectional	<u>2737.30</u>	<u>4.490</u>
Capture	<u>1900.92</u>	<u>3.118</u>
Wetted	<u>          </u>	<u>          </u>
Base	<u>          </u>	<u>          </u>

\*Nacelle Sta. 0.0 @

Model Sta. - In.

Waterplane - In.

Buttock Plane - In.

Incidence Angle - Deg.

Nacelle Clearance - In.

Toe-In Angle - Deg.

WING ENGINE

	<u>Outboard</u>	<u>Inboard</u>
+ 40.500	+ 36.450	
9.621	9.230	
+ 12.920	+ 8.990	
3.933	3.933	
0.608	0.608	
5.000	5.000	

BODY ENGINE

<u>Centerline</u>
38.475
9.310
0.0
3.933
0.142
0.0

\*All numbers in model scale



TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: AIR BREATHING PROPULSION SYSTEM - J56GENERAL DESCRIPTION: Six single engines installed underwing, flush-mounted.Inlet has short cowl, 7° cowl lip angle, short flow diverter, 7° diverter lip angle.MODEL SCALE: 0.0405

DRAWING NO.: SS-A00139

DIMENSIONS (EACH NACELLE):

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length - In.	<u>209.51</u>	<u>8.485</u>
Max. Width - In.	<u>66.00</u>	<u>2.673</u>
Max. Depth - In.	<u>66.00</u>	<u>2.673</u>
Max. Pylon Width- In.	<u>--</u>	<u>--</u>
Area - In. <sup>2</sup>		
Max. Cross-Sectional	<u>2737.30</u>	<u>4.490</u>
Capture	<u>1900.92</u>	<u>3.118</u>
Wetted	<u>          </u>	<u>          </u>
Base	<u>          </u>	<u>          </u>

\*Nacelle Sta. 0.0 @

Model Sta. - In.

Waterplane - In.

Buttock Plane - In.

Incidence Angle - Deg.

Nacelle clearance - In.

Toe-In Angle - Deg.

<u>WING ENGINE</u>		<u>BODY ENGINE</u>	
<u>Outboard</u>	<u>Inboard</u>	<u>Left</u>	<u>Right</u>
<u>43.619</u>	<u>40.500</u>	<u>38.475</u>	<u>38.475</u>
<u>11.495</u>	<u>11.182</u>	<u>9.537</u>	<u>9.537</u>
<u>+ 12.920</u>	<u>+ 8.910</u>	<u>- 2.228</u>	<u>+ 2.228</u>
<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
<u>0.0</u>	<u>0.0</u>	<u>0.0</u>	<u>0.0</u>
<u>5.000</u>	<u>5.000</u>	<u>0.0</u>	<u>0.0</u>

\*All numbers in model scale.

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: AIR BREATHING PROPULSION SYSTEM - J<sub>57</sub>

GENERAL DESCRIPTION: Six single engines, two on fuselage sides at Sta. 1120, four underwing at Sta. 1000 and Sta. 1077. Inlet has short cowl, 7° cowl lip angle, short flow diverter, 7° diverter lip angle.

MODEL SCALE: 0.0405

DRAWING NO.: SS-A00139

DIMENSIONS (EACH MACELLE):

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length- In.	<u>209.51</u>	<u>8.435</u>
Max. Width - In.	<u>66.00</u>	<u>2.673</u>
Max. Depth - In.	<u>66.00</u>	<u>2.673</u>
Max. Pylon Width - In.	<u>19.75</u>	<u>0.800</u>
Area - In. <sup>2</sup>		
Max. Cross-Sectional	<u>2737.30</u>	<u>4.490</u>
Capture	<u>1900.92</u>	<u>3.118</u>
Wetted	<u>          </u>	<u>          </u>
Base	<u>          </u>	<u>          </u>

	<u>WING ENGINE</u>		<u>BODY ENGINE</u>	
<u>*Macelle Sta. 0.0 @</u>	<u>Outboard</u>	<u>Inboard</u>	<u>Left</u>	<u>Right</u>
Model Sta. - In.	43.619	40.500	45.360	45.360
Waterplane - In.	9.621	9.230	16.605	16.605
Buttock Plane - In.	+ 12.920	+ 8.910	- 6.359	+ 6.359
Incidence Angle - Deg.	3.933	3.933	0.0	0.0
Macelle Clearance - In.	0.608	0.608	0.871	0.871
Toe-In Angle - Deg.	5.000	5.000	0.0	0.0

\*All numbers in model scale

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: AIR BREATHING PROPULSION SYSTEM - J58

GENERAL DESCRIPTION: Six single engines, two on fuselage sides at Sta. 1120.  
four underwing at Sta. 950 and Sta. 1000. Inlet has short cowl, 7° cowl lip  
angle, short flow diverter, 7° diverter lip angle.

MODEL SCALE: 0.0405

DRAWING NO.: SS-A00139

DIMENSIONS (EACH NACELLE):

	<u>FULL SCALE</u>	<u>MODEL SCALE</u>
Length - In.	<u>209.51</u>	<u>8.485</u>
Max. Width - In.	<u>66.00</u>	<u>2.673</u>
Max. Depth - In.	<u>66.00</u>	<u>2.673</u>
Max. Pylon Width - In.	<u>19.75</u>	<u>0.800</u>
Area - In. <sup>2</sup>		
Max. Cross-Sectional	<u>2737.30</u>	<u>4.490</u>
Capture	<u>1900.92</u>	<u>3.118</u>
Wetted	<u>          </u>	<u>          </u>
Base	<u>          </u>	<u>          </u>

	<u>WING ENGINE</u>		<u>BODY ENGINE</u>	
<u>*Nacelle Sta. 0.0 @</u>	<u>Outboard</u>	<u>Inboard</u>	<u>Left</u>	<u>Right</u>
Model Sta. - In.	40.500	38.475	45.360	45.360
Waterplane - In.	9.230	9.270	16.605	16.605
Buttock Plane - In.	+ 8.910	+ 2.228	- 6.359	6.359
Incidence Angle - Deg.	3.933	3.933	0.0	0.0
Nacelle Clearance - In.	0.608	0.243	0.871	0.871
Toe-In Angle - Deg.	5.000	5.000	0.0	0.0

\*All numbers in model scale

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT : RUDDER - R<sub>5</sub>

GENERAL DESCRIPTION : Orbiter rudder used on VERTICAL - V<sub>9</sub>

MODEL SCALE: 0.0405

DRAWING NUMBER : VL70-000095

DIMENSIONS	FULL SCALE	MODEL SCALE
Area - Ft. <sup>2</sup>	<u>106.38</u>	<u>0.174</u>
Span (equivalent) - In.	<u>201.00</u>	<u>8.141</u>
Inb'd equivalent chord - In.	<u>91.59</u>	<u>3.709</u>
Outb'd equivalent chord - In.	<u>50.83</u>	<u>2.059</u>
Ratio movable surface chord/ total surface chord		
At Inb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
At Outb'd equiv. chord	<u>0.400</u>	<u>0.400</u>
Sweep Back Angles, degrees		
Leading Edge	<u>34.830</u>	<u>34.830</u>
Trailing Edge	<u>26.250</u>	<u>26.250</u>
Hingeline	<u>34.830</u>	<u>34.830</u>
Area Moment (Normal to hinge line) Ft. <sup>3</sup>	<u>526.13</u>	<u>0.035</u>

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: VERTICAL - V<sub>B</sub>

GENERAL DESCRIPTION: Centerline vertical tail with rudder and/or speed  
brake capability.

MODEL SCALE: 0.0405

DRAWING NUMBER:

VL70-000140A, VL70-000146A

DIMENSIONS:

FULL-SCALE

MODEL SCALE

TOTAL DATA

Area (Theo) - Ft <sup>2</sup>		
Planform	<u>413.25</u>	<u>0.678</u>
Span (Theo) In	<u>315.72</u>	<u>12.787</u>
Aspect Ratio	<u>1.675</u>	<u>1.675</u>
Rate of Taper	<u>0.507</u>	<u>0.507</u>
Taper Ratio	<u>0.404</u>	<u>0.404</u>
Sweep Back Angles, degrees		
Leading Edge	<u>45.000</u>	<u>45.000</u>
Trailing Edge	<u>25.947</u>	<u>25.947</u>
0.25 Element Line	<u>41.130</u>	<u>41.130</u>
Chords: - In.		
Root (Theo) WP	<u>268.50</u>	<u>10.874</u>
Tip (Theo) WP	<u>108.47</u>	<u>4.393</u>
MAC	<u>199.81</u>	<u>8.092</u>
Fus. Sta. of .25 MAC	<u>1463.50</u>	<u>59.272</u>
W. P. of .25 MAC	<u>635.52</u>	<u>25.738</u>
B. L. of .25 MAC	<u>0.0</u>	<u>0.0</u>
Airfoil Section		
Leading Wedge Angle - Deg	<u>10.000</u>	<u>10.000</u>
Trailing Wedge Angle - Deg	<u>14.920</u>	<u>14.920</u>
Leading Edge Radius	<u>2.00</u>	<u>2.00</u>
Void Area	<u>13.17</u>	<u>0.022</u>
Blanketed Area		

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: WING-W<sub>118</sub>GENERAL DESCRIPTION: Orbiter delta wing configuration used on BODY - B<sub>26</sub> with  
wing tip extension.MODEL SCALE: 0.0405

TEST NO. \_\_\_\_\_

DNG. NO. VL70-000140B  
VL70-000400

DIMENSIONS:

FULL-SCALE

MODEL SCALE

TOTAL DATA

Area (Theo.) - Ft<sup>2</sup>  
 Planform  
 Span (Theo In.  
 Aspect Ratio  
 Rate of Taper  
 Taper Ratio  
 Dihedral Angle, degrees  
 Incidence Angle, degrees  
 Aerodynamic Twist, degrees  
 Sweep Back Angles, degrees  
 Leading Edge  
 Trailing Edge  
 0.25 Element Line  
 Chords: - In.  
 Root (Theo) B.P.O.O.  
 Tip, (Theo) B.P.  
 MAC  
 Fus. Sta. of .25 MAC  
 W.P. of .25 MAC  
 B.L. of .25 MAC

2730.12	4.478
1050.68	42.553
2.808	2.808
1.177	1.177
0.106	0.106
3.500	3.500
0.500	0.500
3.000	3.000
45.000	45.000
- 10.056	- 10.056
35.209	35.209
689.24	27.914
72.85	2.965
464.14	18.798
1126.72	45.632

EXPOSED DATA

Area (Theo) - Ft<sup>2</sup>  
 Span, (Theo) - In. BP108  
 Aspect Ratio  
 Taper Ratio  
 Chords - In.  
 Root BP108  
 Tip 1.00 b  
 MAC  
 Fus. Sta. of .25 MAC  
 W.P. of .25 MAC  
 B.L. of .25 MAC  
 Airfoil Section (Rockwell Mod NASA)  
 XXXX-64  
 Root  $\frac{b}{2}$  = .425 (%)  
 Tip  $\frac{b}{2}$  = 1.000 (%)

1852.34	3.038
850.68	30.453
2.712	2.712
0.128	0.128
570.62	23.110
72.85	2.965
385.91	15.629
1164.24	47.152
11.3	11.3
12.0	12.0

Data for (1) of (2) Sides

Leading Edge Cuff  
 Planform Area Ft<sup>2</sup>  
 Leading Edge Intersects Fus M. L. @ Sta  
 Leading Edge Intersects Wing @ Sta

118.33	0.194
505.00	20.453
1083.50	43.882

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: WING-W<sub>16</sub>GENERAL DESCRIPTION: Orbiter Delta Wing configuration used on BCDV B<sub>2</sub>MODEL SCALE: 0.0405

TEST NO.

DWG. NO. VL70-000140B  
VL70-000400

DIMENSIONS:

FULL-SCALE

MODEL SCALE

## TOTAL DATA

Area (Theo.) - Ft<sup>2</sup>

Planform

Span (Theo.)-In.

Aspect Ratio

Rate of Taper

Taper Ratio

Dihedral Angle, degrees ( $X_p = 1506.62$ )

Incidence Angle, degrees

Aerodynamic Twist, degrees

Sweep Back Angles, degrees

Leading Edge

Trailing Edge

0.25 Element Line

Chords: - In.

Root (Wing Sta. 0.0)

Tip, (equivalent)

MAC

Fus. Sta. of .25 MAC

W.P. of .25 MAC

B.L. of .25 MAC

## EXPOSED DATA

Area (Theo.) - Ft<sup>2</sup>

Span, (Theo) - In. BP108

Aspect Ratio

Taper Ratio

Chords: - In.

Root BP108

Tip 1.00  $\frac{b}{2}$ 

MAC

Fus. Sta. of .25 MAC

W.P. of .25 MAC

B.L. of .25 MAC

Airfoil Section (Rockwell Mod NASA)

XXXX-64

Root  $\frac{b}{2} = .425$  Root %Tip  $\frac{b}{2} = 1.00$  %

Data for (1) of (2) Sides

Leading Edge Cuff

Planform Area Ft<sup>2</sup>

Leading Edge Intersects Fus M. L. @ Sta

Leading Edge Intersects Wing @ Sta

TABLE III. - MODEL DIMENSIONAL DATA - Continued.

MODEL COMPONENT: TRANSITION GRIT - X<sub>9</sub>

GENERAL DESCRIPTION: Grit located on model nose and all swept surfaces to provide forced boundary layer transition.

NOMINAL GRIT DIAMETER - IN.

Fuselage	0.0054
----------	--------

All surfaces except fuselage	0.0076
------------------------------	--------

STRIP THICKNESS - In.	0.10
-----------------------	------

LOCATION:

Inches aft of local leading edge (streamwise)	1.00
--	------



TABLE III. - MODEL DIMENSIONAL DATA - Concluded.

MODEL COMPONENT: TRANSITION GRIT X<sub>10</sub>

GENERAL DESCRIPTION: Grit located on nacelle inner and outer surface  
to provide forced boundary layer transition.

NOMINAL GRIT DIAMETER - IN.

Nacelle	0.0054
---------	--------

All surfaces except nacelle	0.0076
-----------------------------	--------

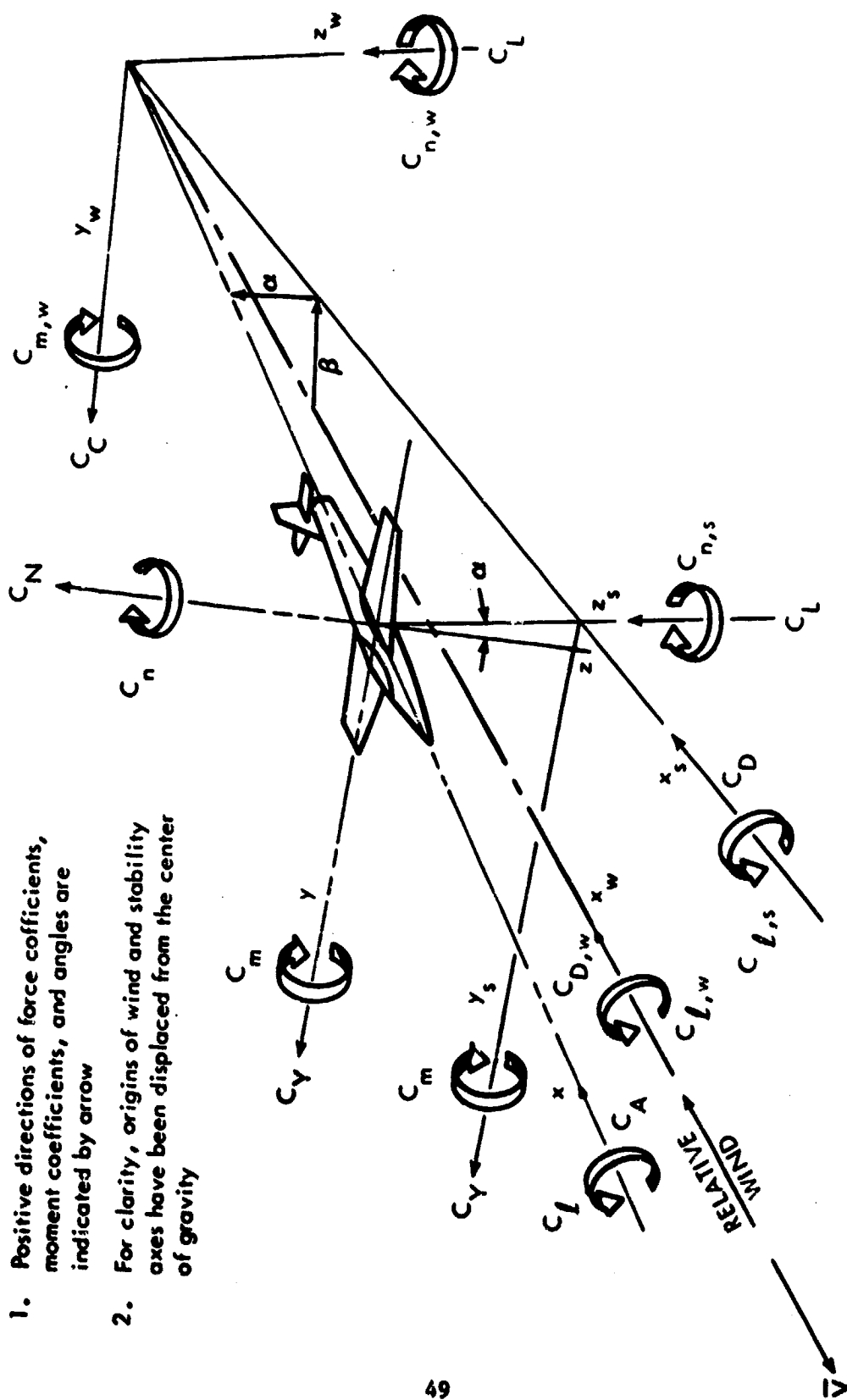
STRIP THICKNESS - In.	0.10
-----------------------	------

LOCATION:

Inches aft of local leading edge (streamwise)	1.00
--	------

**Notes:**

1. Positive directions of force coefficients, moment coefficients, and angles are indicated by arrow
2. For clarity, origins of wind and stability axes have been displaced from the center of gravity



a. Stability and body axes

Figure 1. - Axis systems.

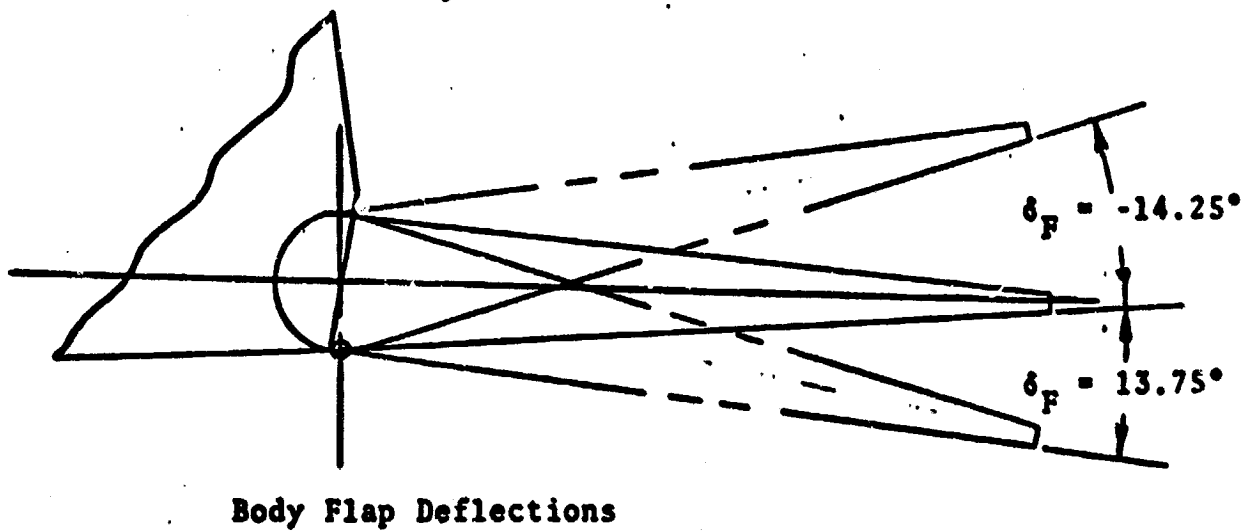
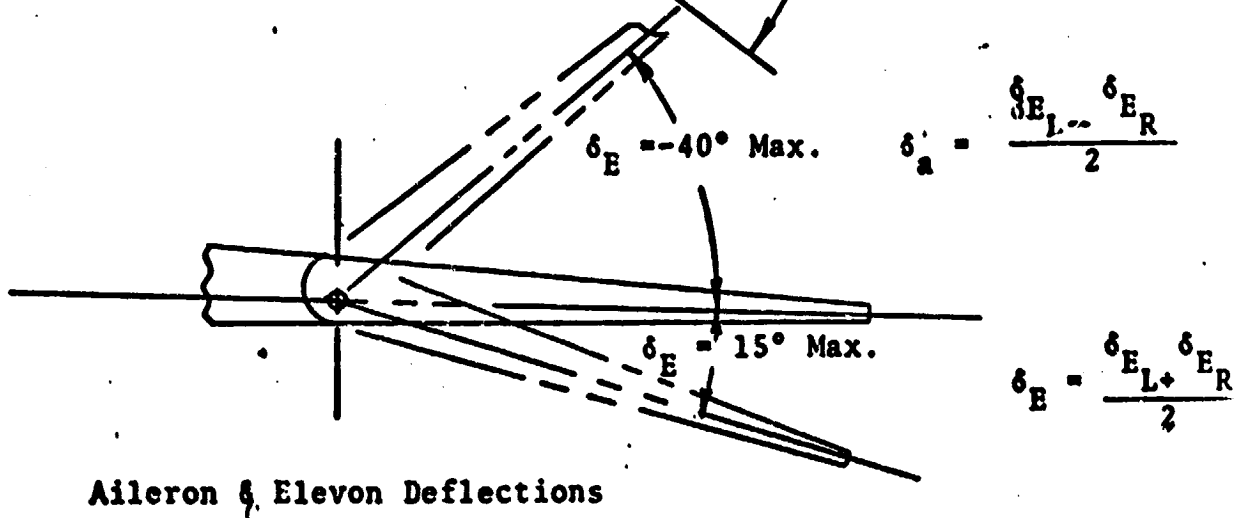
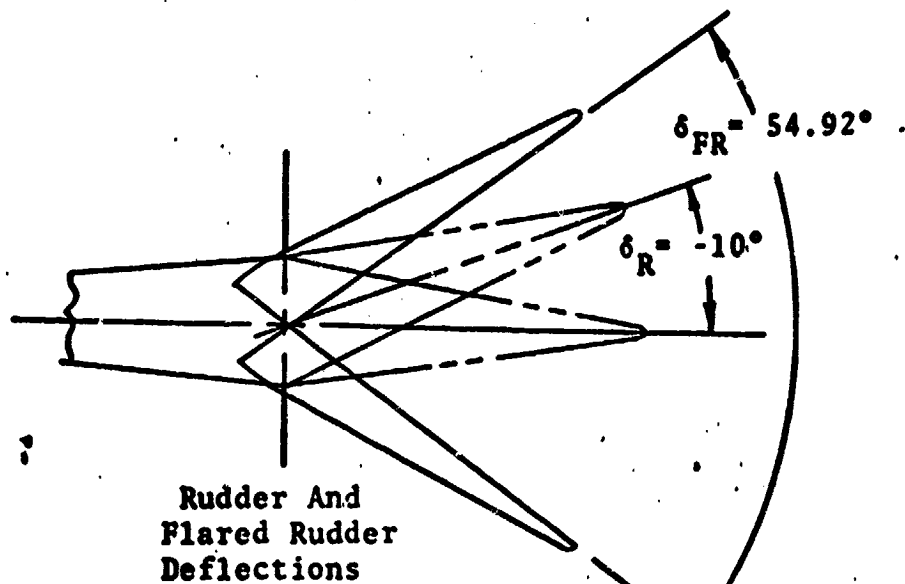


Figure 1. . Concluded.

b. Sign Convention for Control Surfaces

Reference	Dimension
Area	$S_w = 2690 \text{ ft}^2$
MAC	$\bar{c}_w = 474.8 \text{ in}$
C.G.	$X = 1076.48 \text{ in}$
	$Z = 375.0 \text{ in}$
Span	$b_w = 936.68 \text{ in}$
Length	$L = 1290.3 \text{ in}$

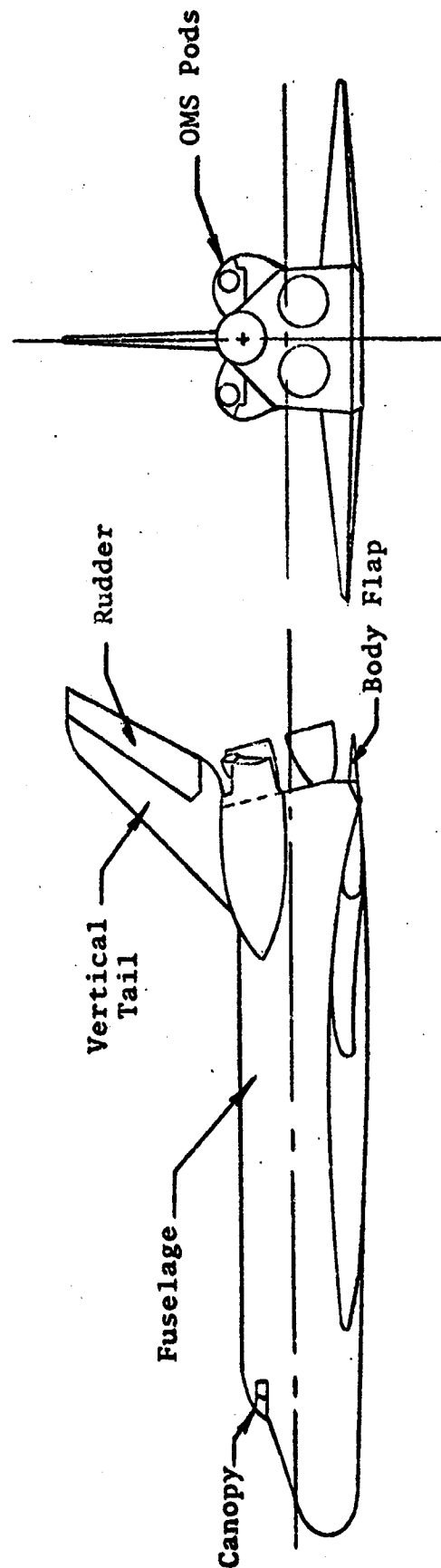
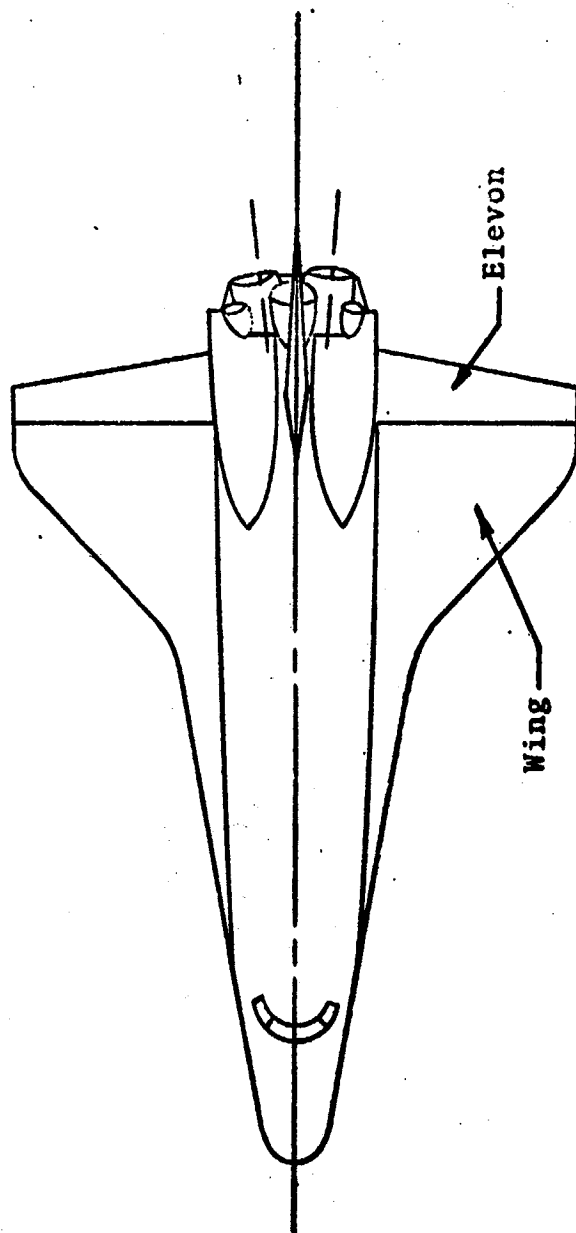
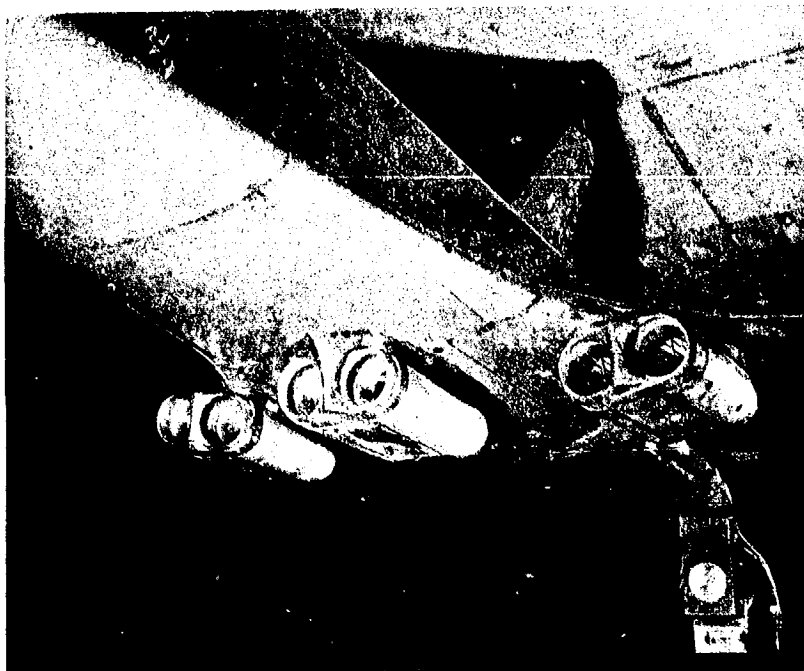


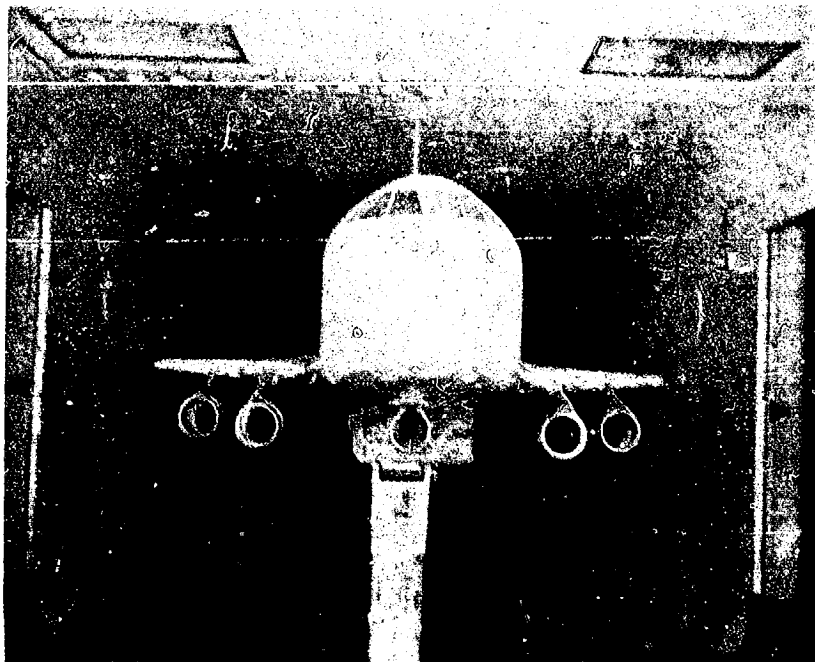
Figure 2.- GENERAL ARRANGEMENT - 140 ORBITER.



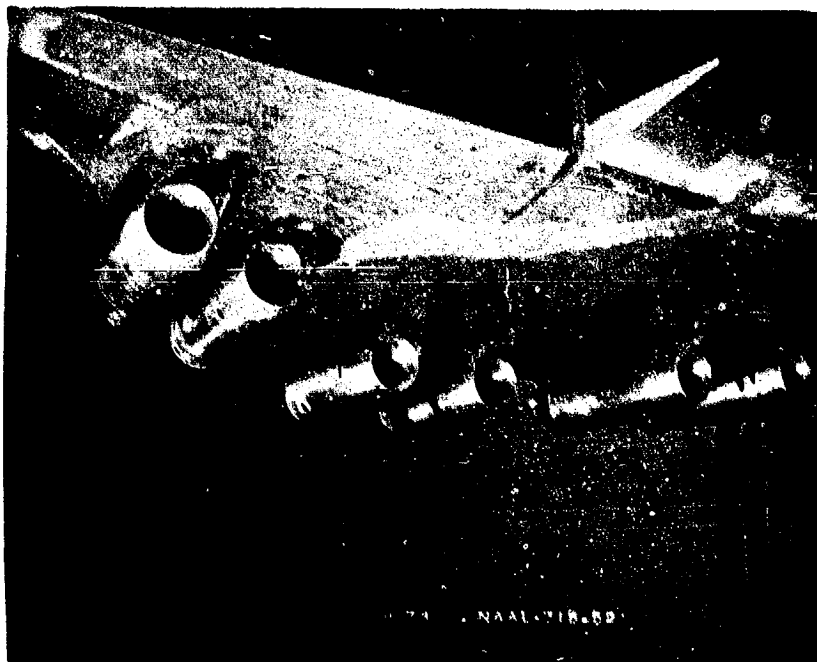
a. Front view, NAAL installation, configuration  
E26 C9 F8 J48 W116 E26 V8 R5 X10



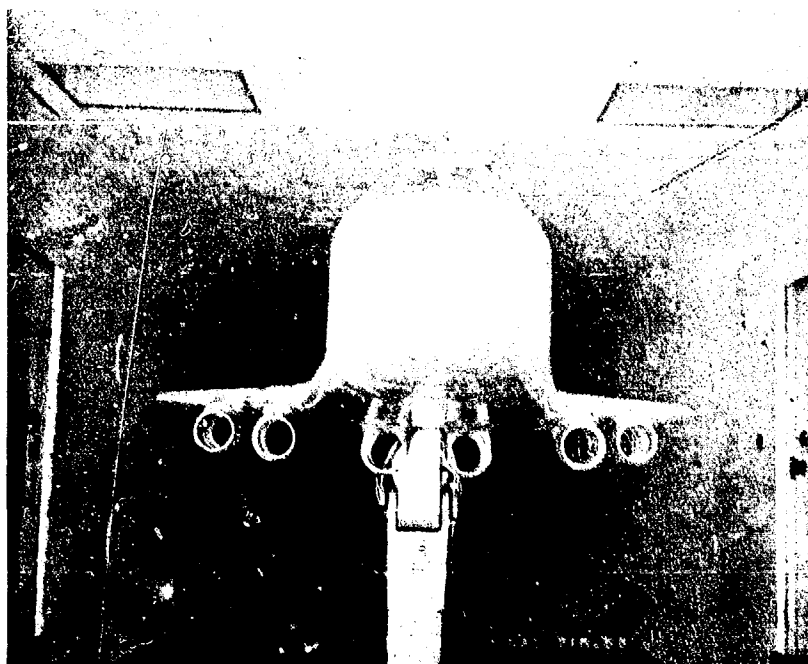
b. Bottom view, NAAL installation, nacelles J54 with brace struts  
Figure 3. Model photographs.



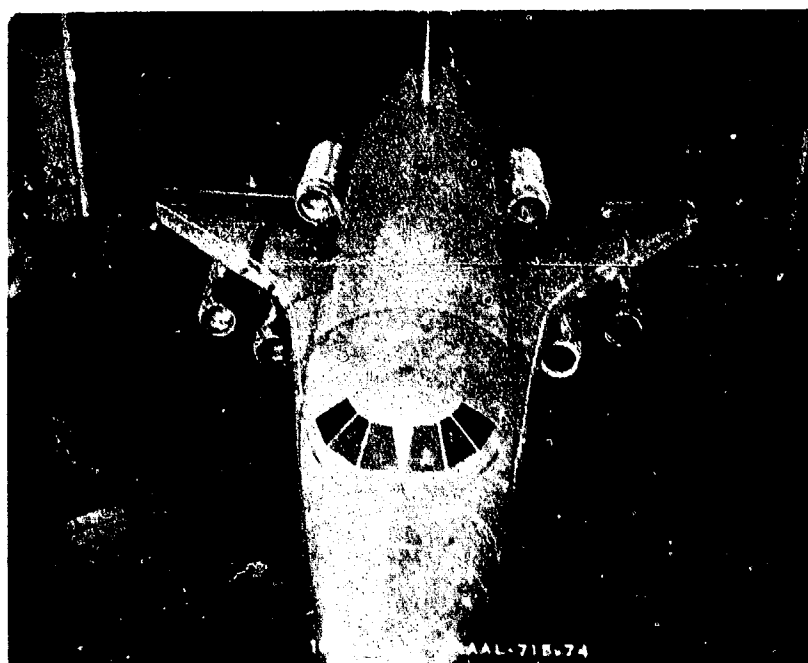
c. Front view, NAAL installation, configuration  
B26 C9 F8 J50 W116 E26 V8 R5 X10



d. Bottom view, NAAL installation, nacelles J56 flush mounted  
Figure 3. Continued.



e. Front view, NAAL installation, configuration  
B26 C9 F8 J56 W116 E26 V8 R5 X10



f. Front view, NAAL installation, configuration  
B26 C9 F8 J57 W116 E26 V8 R5 X10

Figure 3. Concluded.

DATA FIGURES



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPDRBK	REFERENCE INFORMATION
(ADW006)	0A62 B26C9 F8 V116E26V8R5K9	15.000	.000	-12.000	.000	SREF 4.4119 SO.FT.
(ADW012)	0A62 B26C9 F8 V116E26V8R5K9	10.000	.000	-12.000	.000	LREF 19.2299 INCHES
(ADW038)	0A62 B26C9 F8 V116E26V8R5K9	5.000	.000	-12.000	.000	BREF 37.9359 INCHES
(ADW001)	0A62 B26C9 F8 V116E26V8R5K9	-5.000	.000	-12.000	.000	YMRP 43.5974 INCHES
(ADW009)	0A62 B26C9 F8 V116E26V8R5K9	-20.000	.000	-12.000	.000	ZMRP 15.1875 INCHES
(ADW007)	0A62 B26C9 F8 V116E26V8R5K9				.0405	SCALE

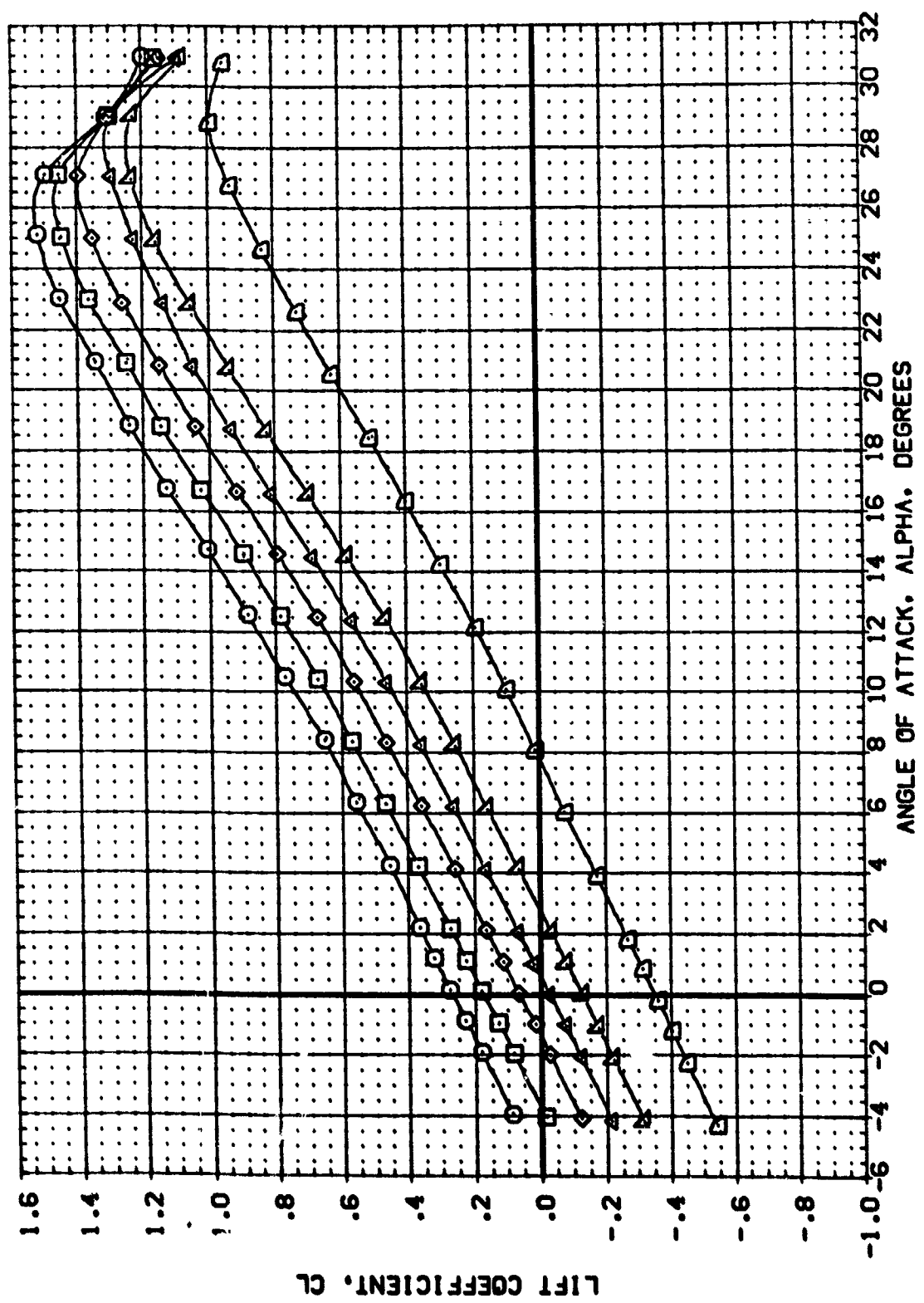


FIG 4 ELEVON EFFECTIVENESS NO NACELLES

(A)MACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BD FLAP	SPOBRK	REFERENCE INFORMATION
(ADW005)	DA62 B26C9 F8 V116E26V85K9	15.000	.000	-12.000	.000	SREF 4.4119 50. FT.
(ADW012)	DA62 B26C9 F8 V116E26V85K9	10.000	.000	-12.000	.000	LREF 19.2299 INCHES
(ADW008)	DA62 B26C9 F8 V116E26V85K9	5.000	.000	-12.000	.000	BRF 37.9259 INCHES
(ADW001)	DA62 B26C9 F8 V116E26V85K9	.000	.000	-12.000	.000	WREF 43.5574 INCHES
(ADW009)	DA62 B26C9 F8 V116E26V85K9	-5.000	.000	-12.000	.000	WREF .0000 INCHES
(ADW007)	DA62 B26C9 F8 V116E26V85K9	-20.000	.000	-12.000	.000	WREF 15.1875 INCHES
						SCALE .0405

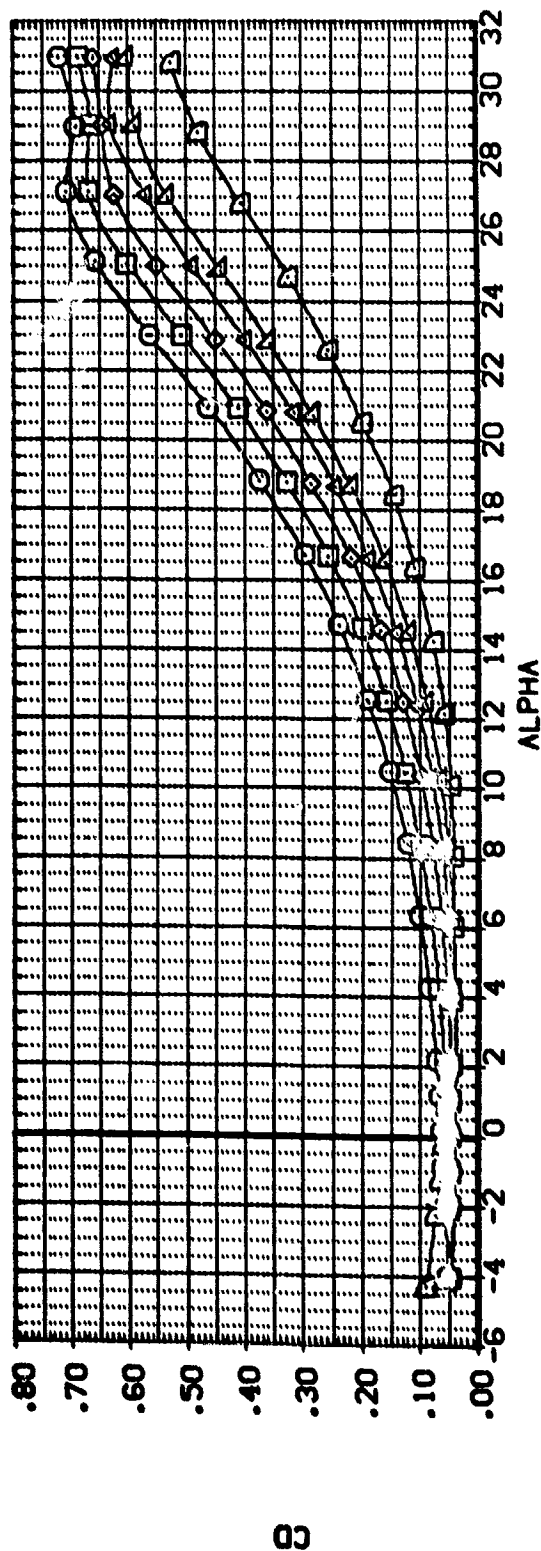
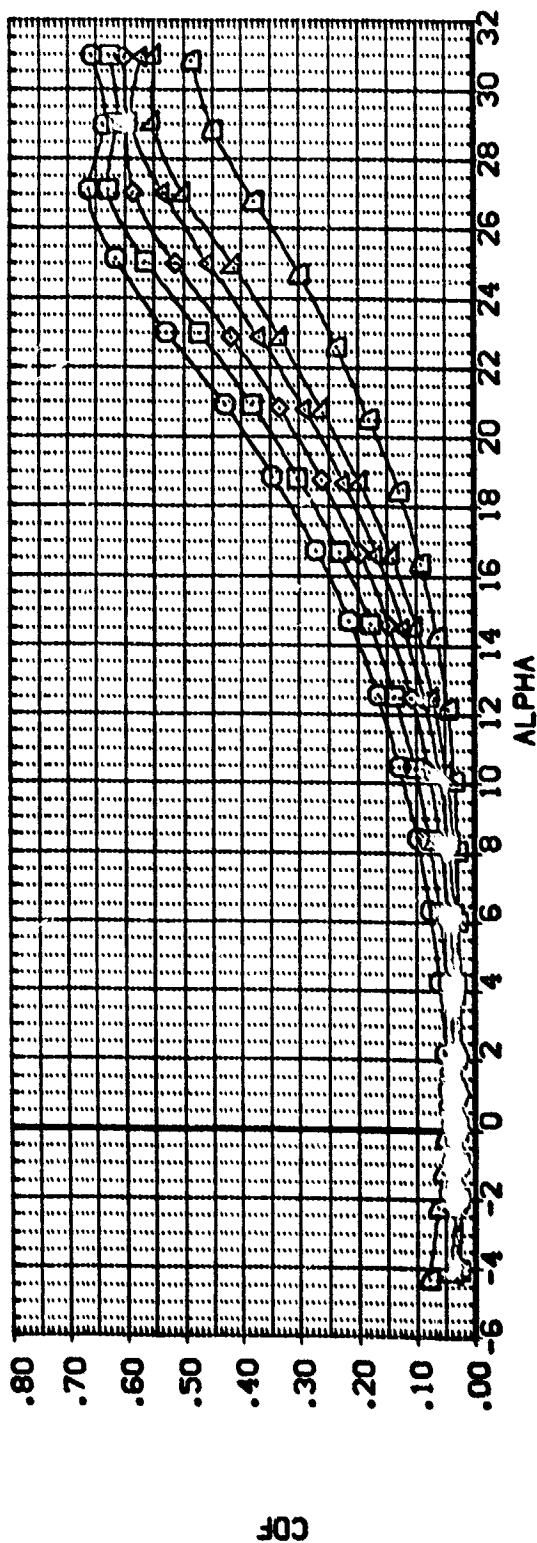


FIG 4 ELEVON EFFECTIVENESS NO NACELLES

(A)MACH = .20

DATA SET SYMBL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(ADM006)	QAG2 B26C9 F8 VI16E26VBR5K9	15.000	.000	-12.000	.000	SREF 4.4119 50 FT.
(ADM012)	QAG2 B26C9 F8 VI16E26VBR5K9	10.000	.000	-12.000	.000	LREF 19.2299 INCHES
(ADM008)	QAG2 B26C9 F8 VI16E26VBR5K9	5.000	.000	-12.000	.000	BREF 37.5359 INCHES
(ADM001)	QAG2 B26C9 F8 VI16E26VBR5K9	.000	.000	-12.000	.000	XPRP 43.5974 INCHES
(ADM009)	QAG2 B26C9 F8 VI16E26VBR5K9	-5.000	.000	-12.000	.000	YPRP .0000 INCHES
(ADM007)	QAG2 B26C9 F8 VI16E26VBR5K9	-20.000	.000	-12.000	.000	ZPRP 15.1875 INCHES
						SCALE .0405

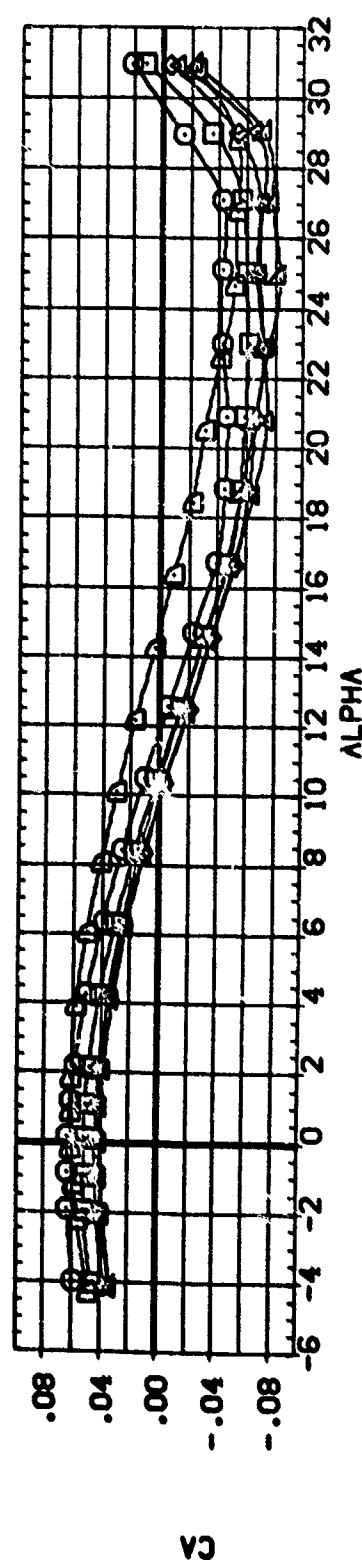
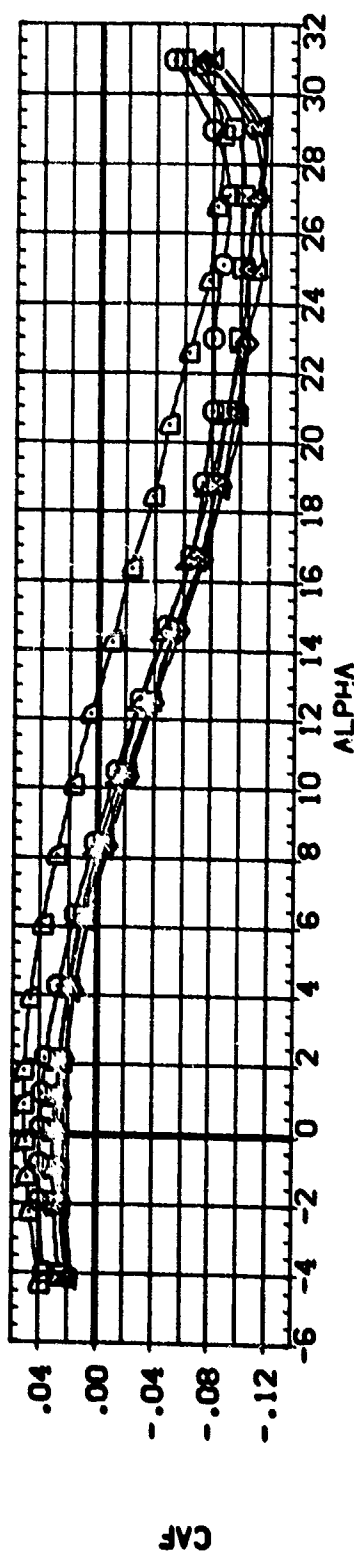
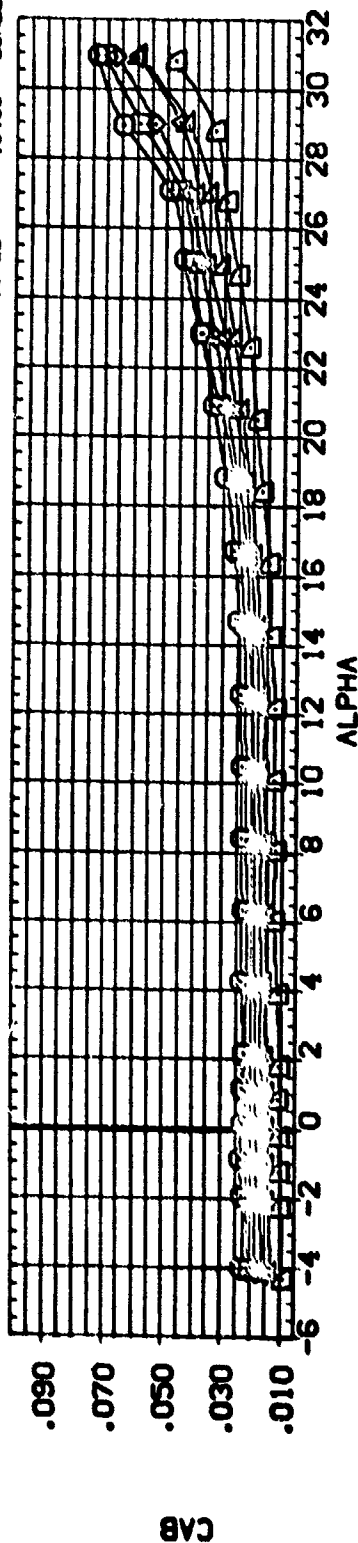


FIG 4 ELEVON EFFECTIVENESS NO NACELLES

(M)MACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(ADV005)	DA62 B26C9 F8 VI16E26VBRSX9
(ADV012)	DA62 B26C9 F8 VI16E26VBRSX9
(ADV008)	DA62 B26C9 F8 VI16E26VBRSX9
(ADV001)	DA62 B26C9 F8 VI16E26VBRSX9
(ADV003)	DA62 B26C9 F8 VI16E26VBRSX9
(ADV007)	DA62 B26C9 F8 VI16E26VBRSX9

ELEVON	AILERON	BOFLAP	SPDRK	REFERENCE INFORMATION
15.000	.000	-12.000	.000	SREF 4.4119 SO.FT.
10.000	.000	-12.000	.000	LREF 19.2259 INCHES
5.000	.000	-12.000	.000	BREF 37.9359 INCHES
-5.000	.000	-12.000	.000	XHBP 43.5974 INCHES
-20.000	.000	-12.000	.000	ZHBP 15.1875 INCHES
				SCALE .0405 SCALE

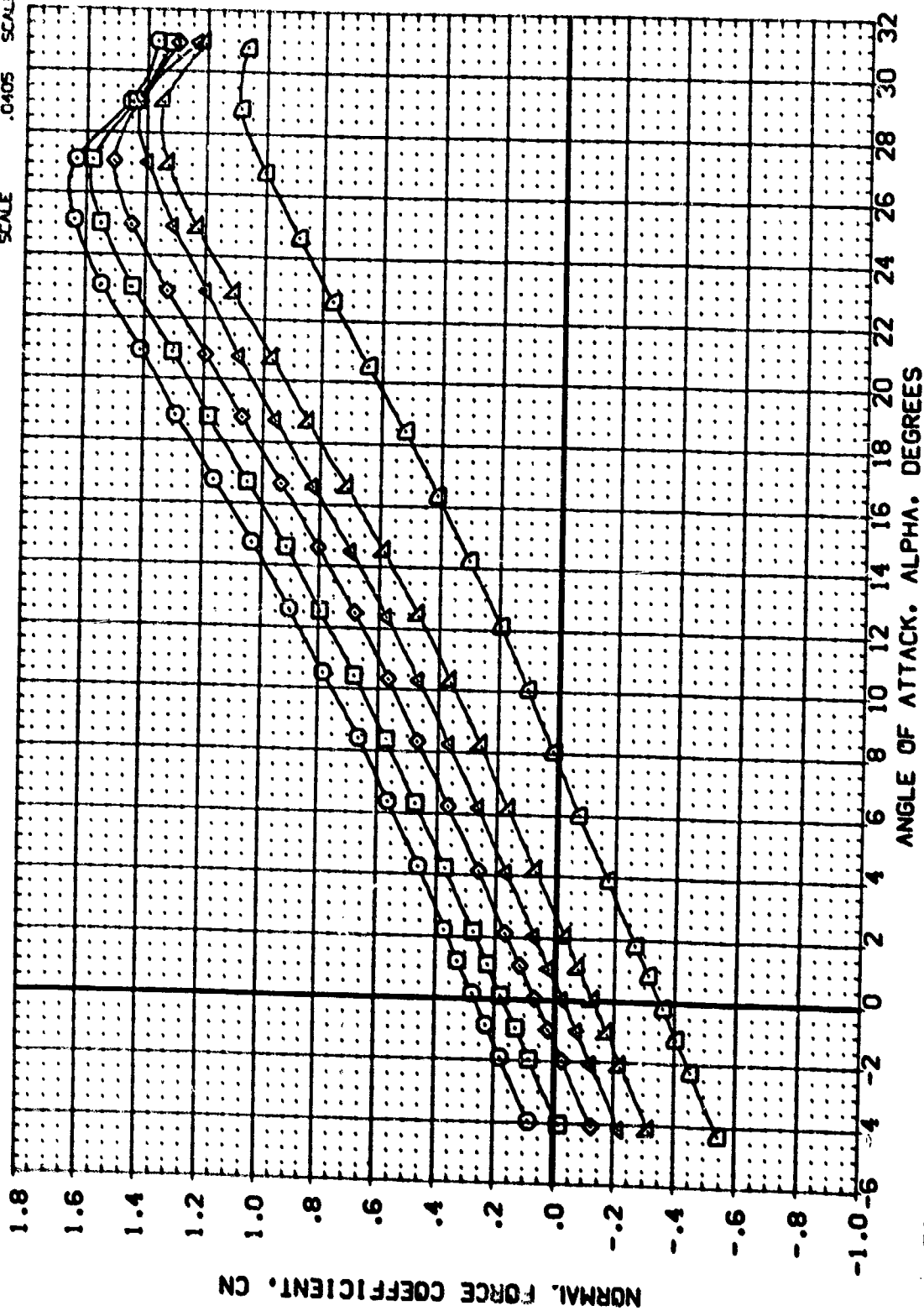
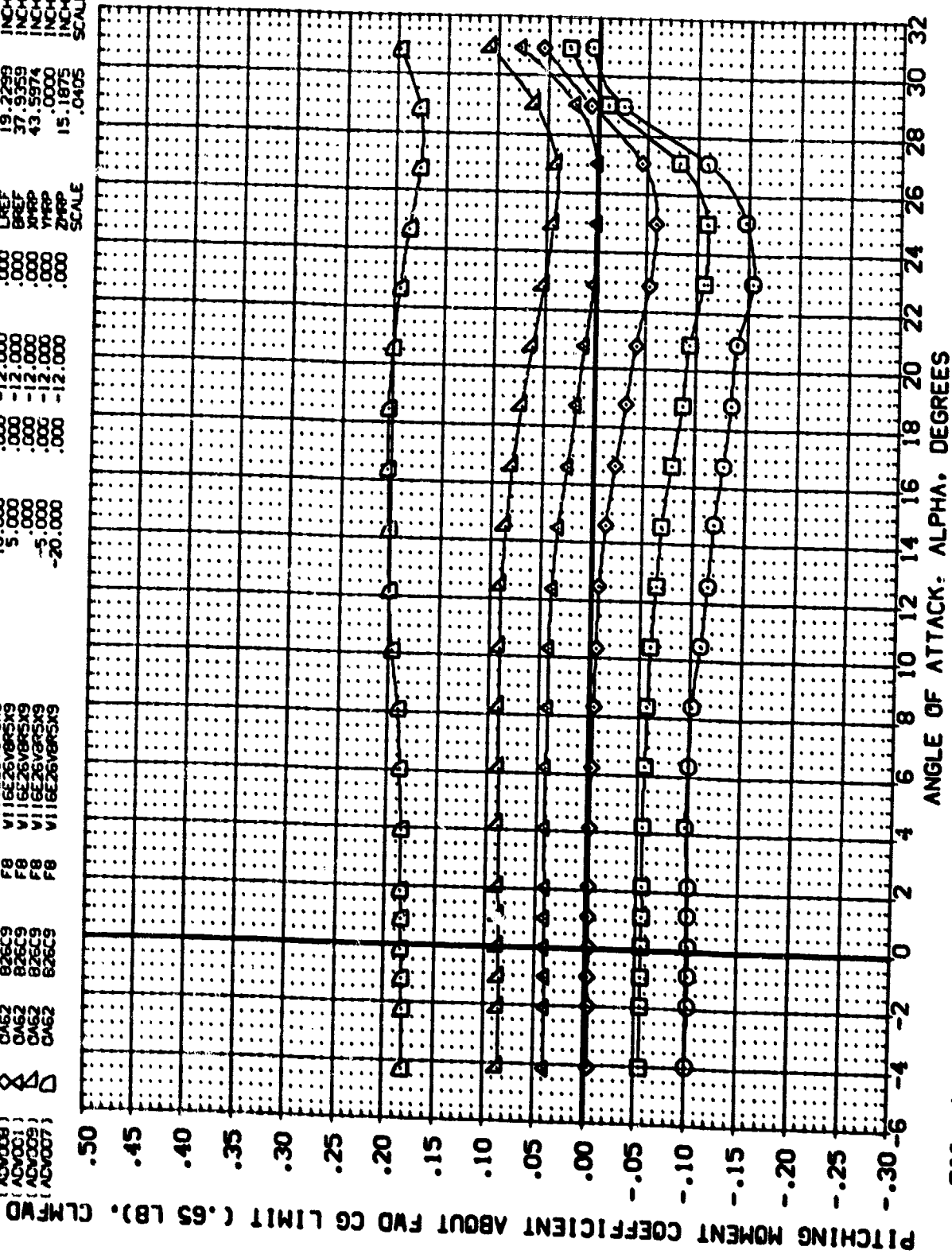


FIG 4 ELEVON EFFECTIVENESS NO MACELLES

(A)MACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPOILER	REFERENCE INFORMATION
(ADV005)	0A62 B26C9 F8 VI16E26V8R5X9	15.000	.000	-12.000	.000	SREF 4.4119 50. FT.
(ADV012)	0A62 B26C9 F8 VI16E26V8R5X9	10.000	.000	-12.000	.000	LREF 19.2299 INC-ES
(ADV008)	0A62 B26C9 F8 VI16E26V8R5X9	5.000	.000	-12.000	.000	BREF 37.9359 INC-ES
(ADV001)	0A62 B26C9 F8 VI16E26V8R5X9	.000	.000	-12.000	.000	XMRP 43.5974 INC-ES
(ADV009)	0A62 B26C9 F8 VI16E26V8R5X9	-5.000	.000	-12.000	.000	YMRP .0000 INC-ES
(ADV007)	0A62 B26C9 F8 VI16E26V8R5X9	-20.000	.000	-12.000	.000	ZMRP 15.1875 INC-ES
						SCALE .0405 SCALE



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	BOFLAP	SPORBK	REFERENCE INFORMATION
(ADVC06)	0A62 B26C9 F8 V11E26VBR5X9	13.000	.000	-12.000	.000	SREF 4.4119 50. FT
(ADVC12)	0A62 B26C9 F8 V11E26VBR5X9	10.000	.000	-12.000	.000	LREF 19.2299 INCHES
(ADVC08)	0A62 B26C9 F8 V11E26VBR5X9	5.000	.000	-12.000	.000	BREF 37.9359 INCHES
(ADVC01)	0A62 B26C9 F8 V11E26VBR5X9	.000	.000	-12.000	.000	XREF 43.5374 INCHES
(ADVC09)	0A62 B26C9 F8 V11E26VBR5X9	-5.000	.000	-12.000	.000	YREF .0000 INCHES
(ADVC07)	0A62 B26C9 F8 V11E26VBR5X9	-20.000	.000	-12.000	.000	ZREF 15.1875 INCHES
						SCALE .0405

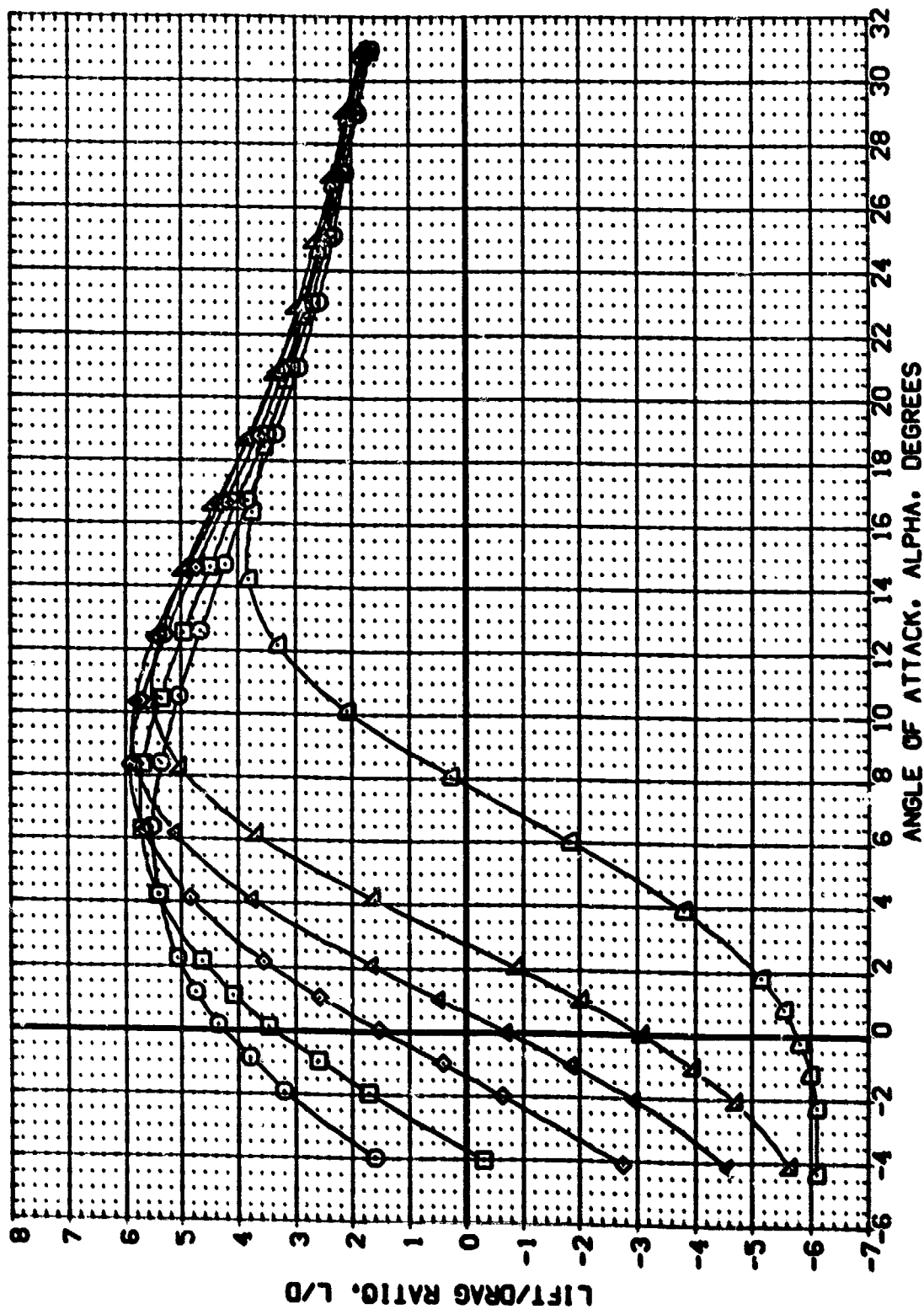


FIG 4 ELEVON EFFECTIVENESS NO NACELLES

(A)MACH = .20



DATA SET SYMB.	CONFIGURATION	DESCRIPTION	ELEVON	AIRLON	BOFLAP	SPDRK	REFERENCE INFORMATION
(ADV005)	DA62	826C9	15.000	.000	-12.000	.000	SREF 4.4119 50.000
(ADV012)	DA62	826C9	10.000	.000	-12.000	.000	UREF 19.2299 INCHES
(ADV008)	DA62	826C9	5.000	.000	-12.000	.000	BRUF 37.9359 INCHES
(ADV001)	DA62	826C9	-5.000	.000	-12.000	.000	YREF 43.5974 INCHES
(ADV009)	DA62	826C9	-20.000	.000	-12.000	.000	YREF 15.1875 INCHES
(ADV007)	DA62	826C9					SCALE .0405

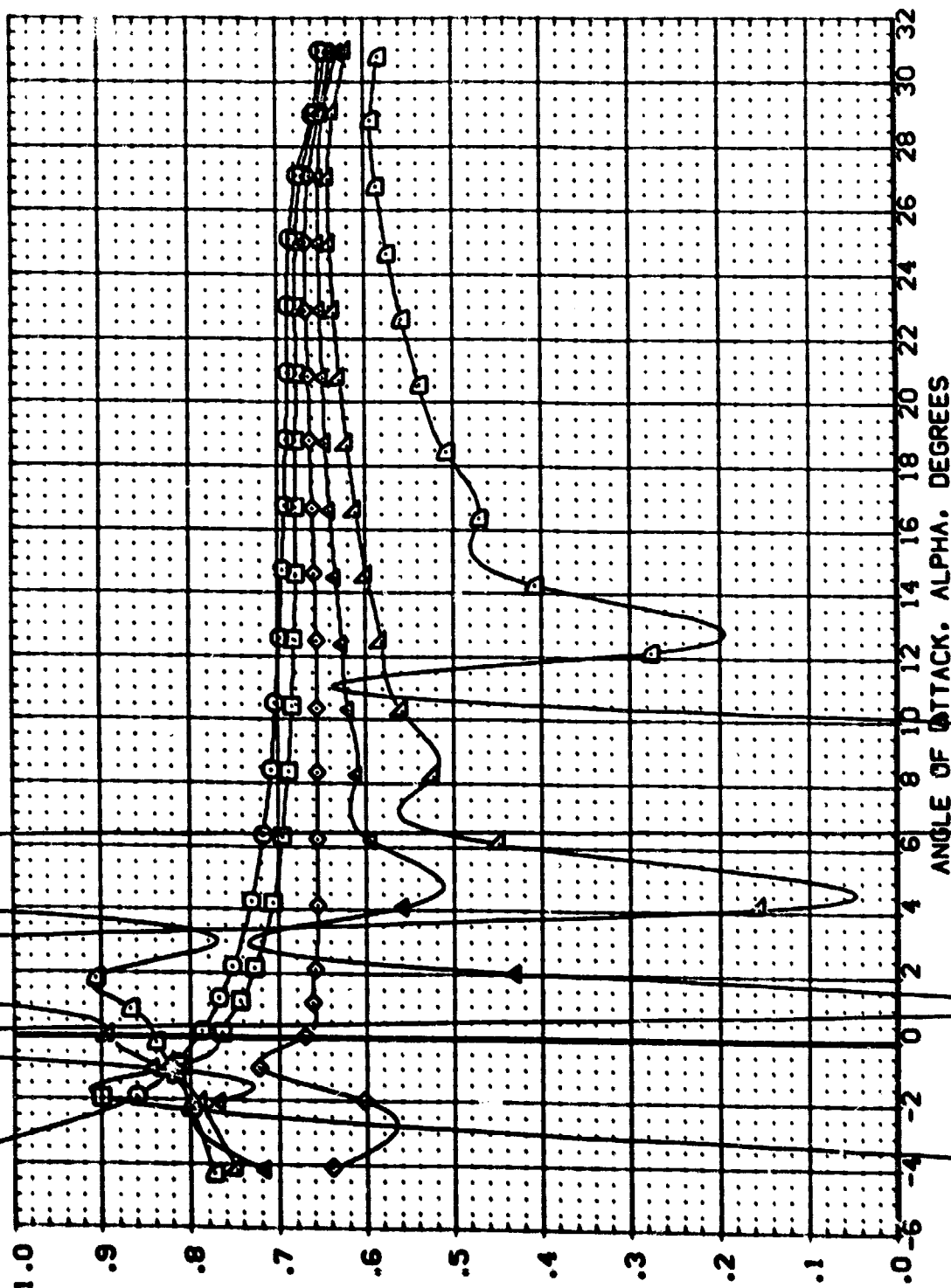


FIG 4 ELEVON EFFECTIVENESS NO NACELLES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	BDFLAP	SPOBRK	REFERENCE INFORMATION
(ADVC05)	0A62 B26C9 F8 VII6E26V8R5X9	15.000	.000	-12.000	.000	SREF 4.4119 50.FT.
(ADVC06)	0A62 B26C9 F8 VII6E26V8R5X9	10.000	.000	-12.000	.000	LREF 19.2259 INCHES
(ADVC07)	0A62 B26C9 F8 VII6E26V8R5X9	5.000	.000	-12.000	.000	BREF 37.9359 INCHES
(ADVC08)	0A62 B26C9 F8 VII6E26V8R5X9	.000	.000	-12.000	.000	XREF 43.5974 INCHES
(ADVC09)	0A62 B26C9 F8 VII6E26V8R5X9	-5.000	.000	-12.000	.000	YREF .0000 INCHES
(ADVC10)	0A62 B26C9 F8 VII6E26V8R5X9	-20.000	.000	-12.000	.000	ZREF 15.1875 INCHES
(ADVC11)	0A62 B26C9 F8 VII6E26V8R5X9					SCALE .0405

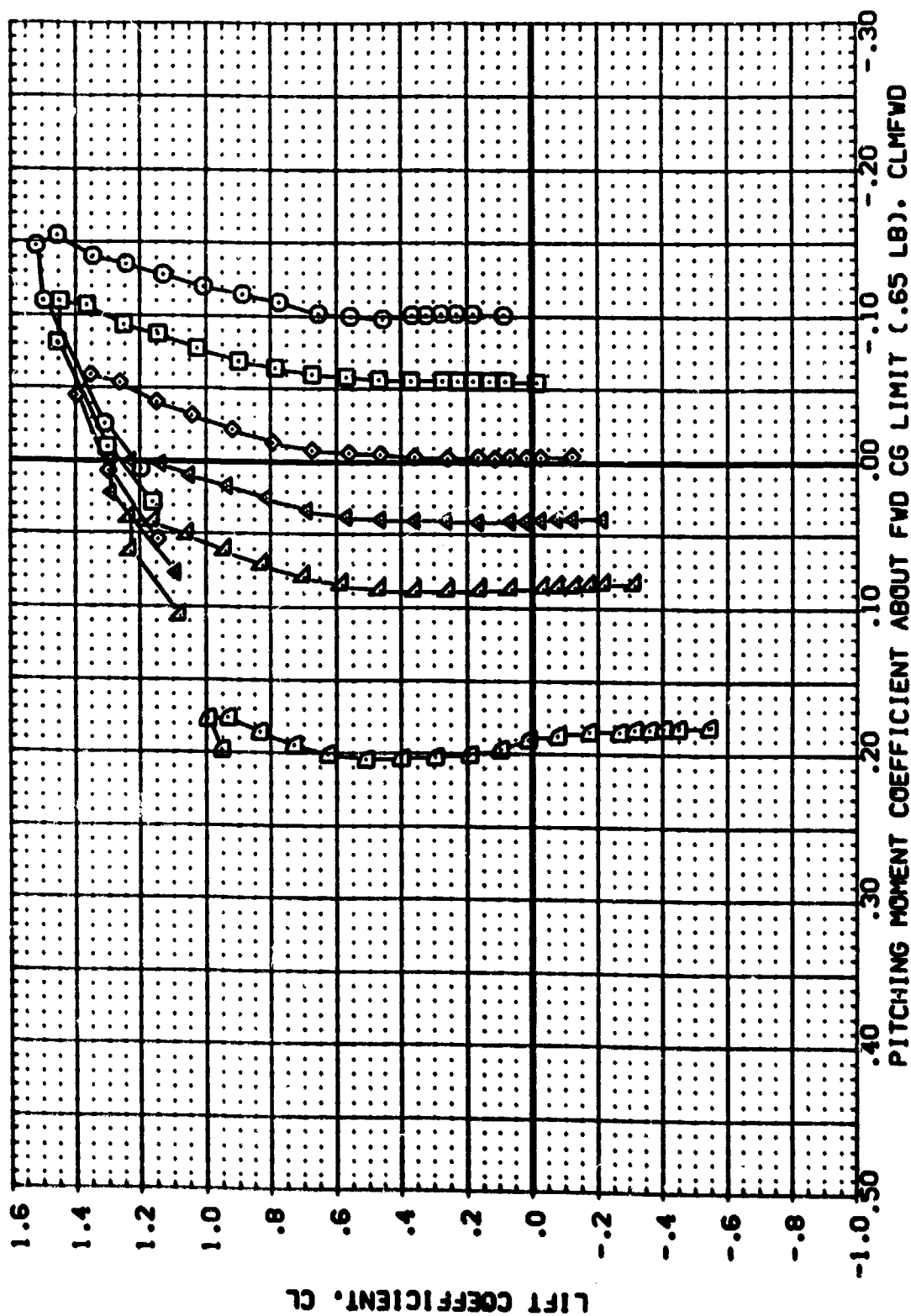


FIG 4 ELEVON EFFECTIVENESS NO NACELLES

(A)MACH = .20



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	BD FLAP	SPDRK	REFERENCE INFORMATION
(ADV005)	0A62 826C9 FB VI:GE26V85X9	15.000	.000	-12.000	.000	SREF 4.4119 50. FT.
(ADV012)	0A62 826C9 FB VI:GE26V85X9	10.000	.000	-12.000	.000	LREF 19.2299 INCHES
(ADV008)	0A62 826C9 FB VI:GE26V85X9	5.000	.000	-12.000	.000	BREF 37.9359 INCHES
(ADV001)	0A62 826C9 FB VI:GE26V85X9	.000	.000	-12.000	.000	YREF 43.5974 INCHES
(ADV009)	0A62 826C9 FB VI:GE26V85X9	-5.000	.000	-12.000	.000	ZREF .0000 INCHES
(ADV007)	0A62 826C9 FB VI:GE26V85X9	-20.000	.000	-12.000	.000	YREF 15.1875 INCHES
						SCALE .0405

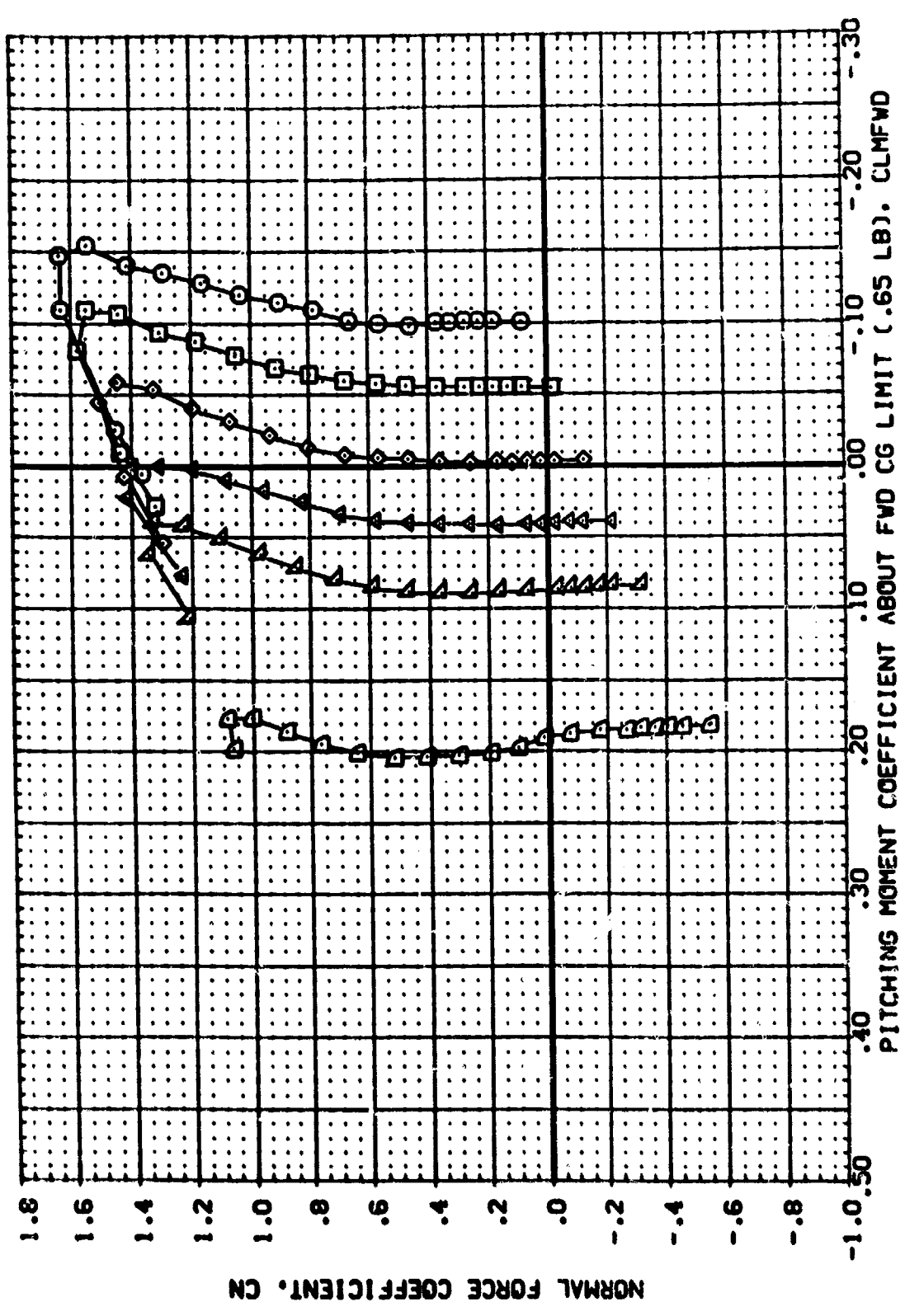


FIG 4 ELEVON EFFECTIVENESS NO NACELLES

(A)MACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPOLARK	REFERENCE INFORMATION
(ADVO06)	0A62 B26C9 F8 V116E26V85X9	15.000	.000	-12.000	.000	SREF 4.4119 50.FT.
(ADVO12)	0A62 B26C9 F8 V116E26V85X9	10.000	.000	-12.000	.000	LREF 19.2399 INCHES
(ADVO08)	0A62 B26C9 F8 V116E26V85X9	5.000	.000	-12.000	.000	BREF 37.9359 INCHES
(ADVO01)	0A62 B26C9 F8 V116E26V85X9	.000	.000	-12.000	.000	XTRP 43.5974 INCHES
(ADVO09)	0A62 B26C9 F8 V116E26V85X9	-5.000	.000	-12.000	.000	YTRP 15.0000 INCHES
(ADVO07)	0A62 B26C9 F8 V116E26V85X9	-20.000	.000	-12.000	.000	ZTRP 15.1875 INCHES
						SCALE .0405

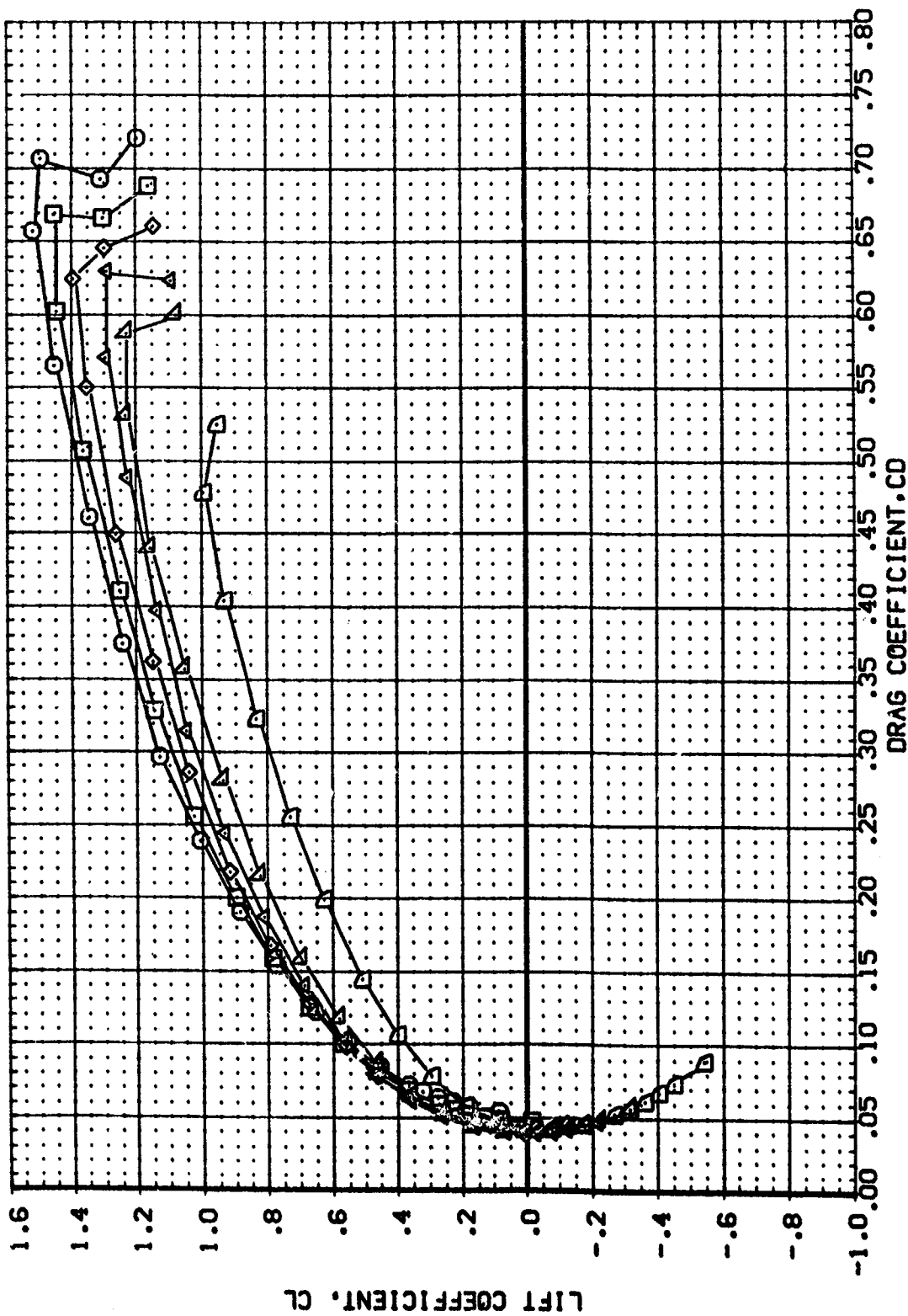


FIG 4 ELEVON EFFECTIVENESS NO NACELLES

(A)MACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILRON	BOFLAP	SPDRBK	REFERENCE INFORMATION
(CDW006)	DA62 B26C9 F8 VI16E26VBR5X9	15.000	.000	-12.000	.000	4.4119 SO.FT.
(CDW012)	DA62 B26C9 F8 VI16E26VBR5X9	10.000	.000	-12.000	.000	19.2299 INCHES
(CDW008)	DA62 B26C9 F8 VI16E26VBR5X9	5.000	.000	-12.000	.000	37.9359 INCHES
(CDW001)	DA62 B26C9 F8 VI16E26VBR5X9	.000	.000	-12.000	.000	44.3813 INCHES
(CDW009)	DA62 B26C9 F8 VI16E26VBR5X9	-5.000	.000	-12.000	.000	15.1875 INCHES
(CDW007)	DA62 B26C9 F8 VI16E26VBR5X9	-20.000	.000	-12.000	.000	.0405 SCALE

PITCHING MOMENT COEFFICIENT ABOUT AFT CG LIMIT (.675 LB). CLMFT

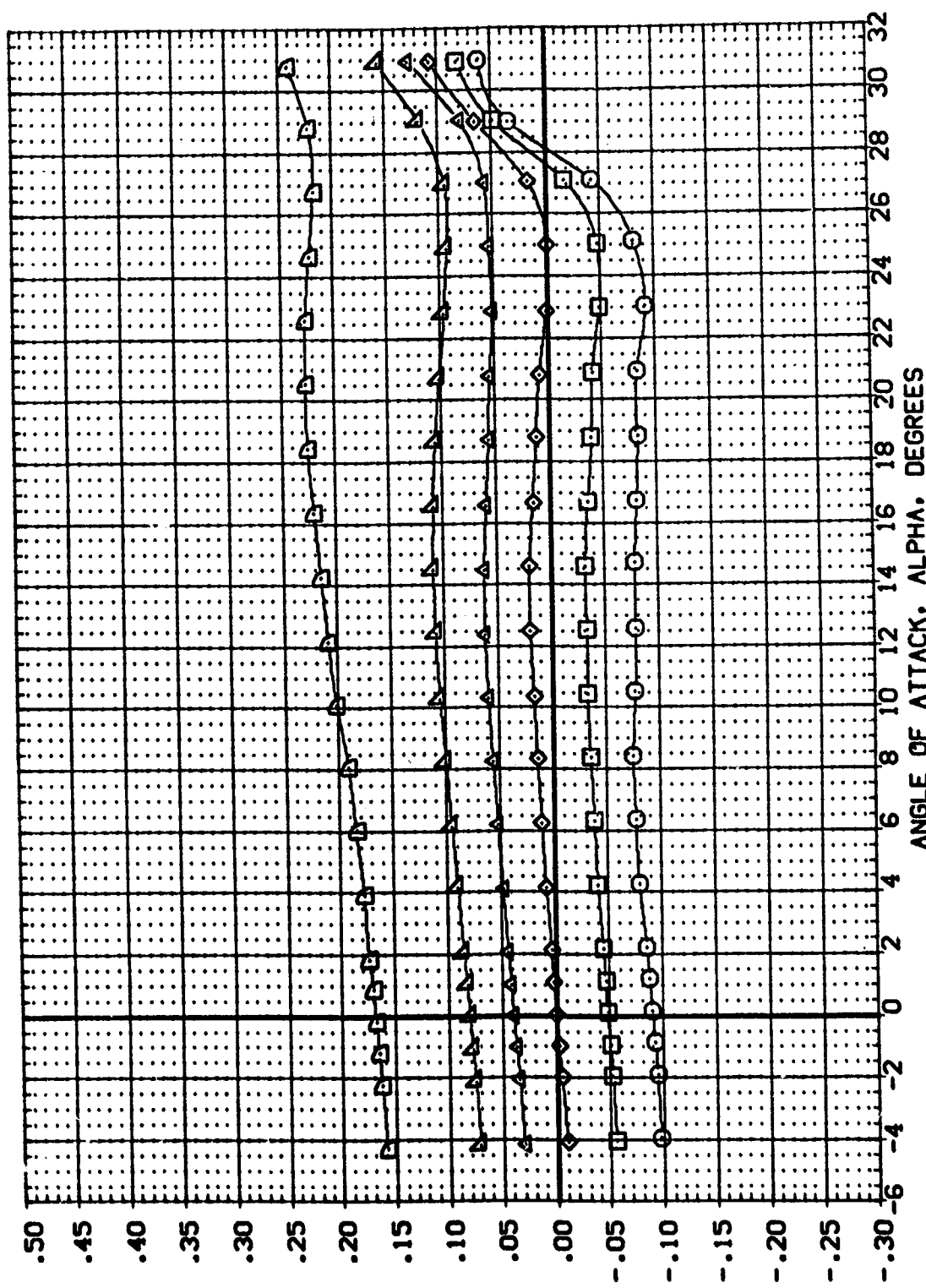


FIG 4 ELEVON EFFECTIVENESS NO NACELLES

(A)MACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NACA/L	ELEVON	BOFLAP	SPDRBK	REFERENCE INFORMATION
(ADV083)	0A62 B26C9 FBJ48V11EE26V8RSX10	.730	15.000	-12.000	.000	4.4119 SO.FT.
(ADV084)	0A62 B26C9 FBJ48V11EE26V8RSX10	.730	10.000	-12.000	.000	19.2298 INCHES
(ADV085)	0A62 B26C9 FBJ48V11EE26V8RSX10	.730	5.000	-12.000	.000	37.9359 INCHES
(ADV086)	0A62 B26C9 FBJ48V11EE26V8RSX10	.730	0.000	-12.000	.000	43.5974 INCHES
(ADV087)	0A62 B26C9 FBJ48V11EE26V8RSX10	.730	-5.000	-12.000	.000	.0000 INCHES
(ADV088)	0A62 B26C9 FBJ48V11EE26V8RSX10	.730	-10.000	-12.000	.000	15.1875 INCHES
						.0405 SCALE

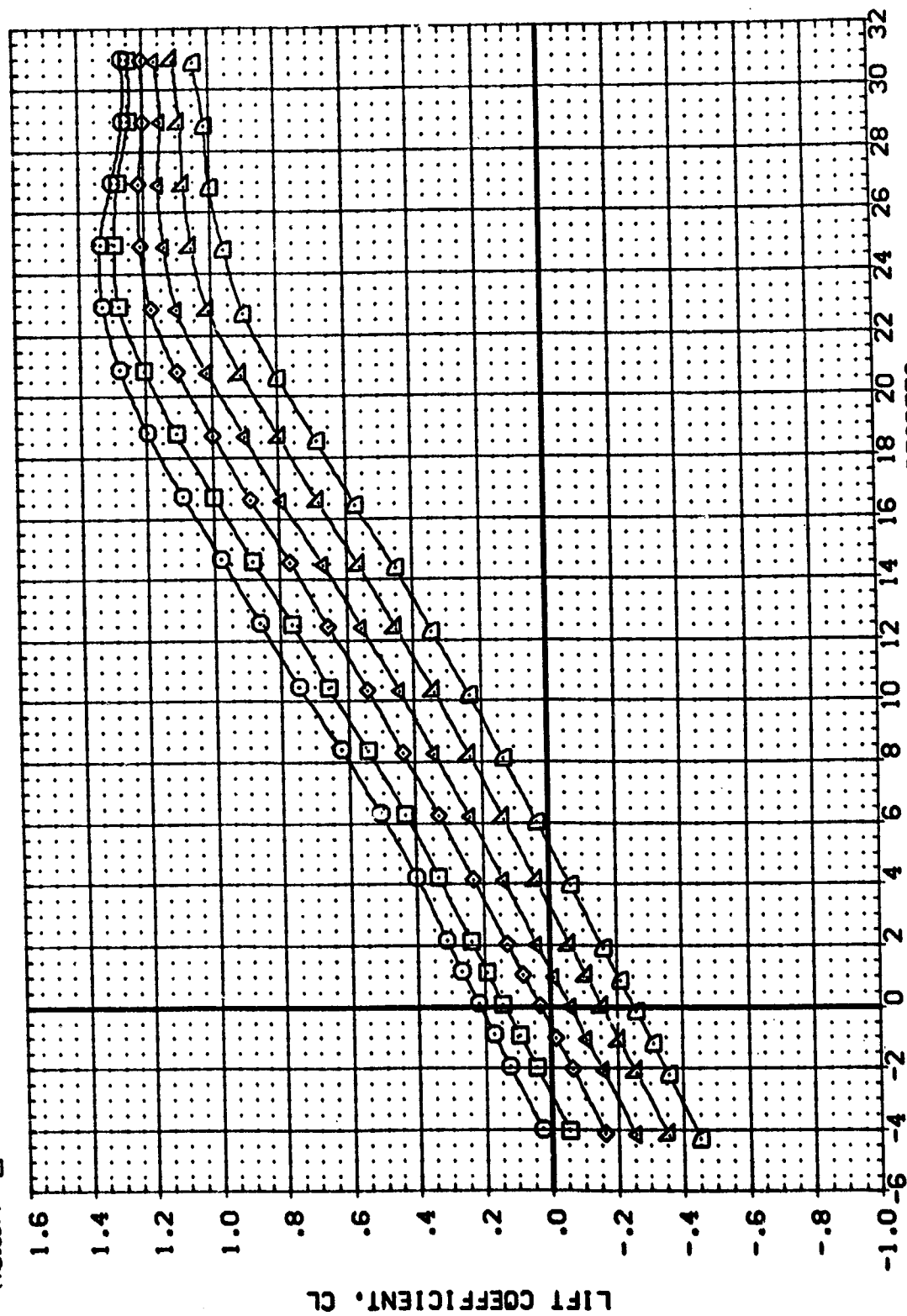


FIG 5 ELEVON EFFECTIVENESS 3 CLUSTERS FLUSH MOUNT X0 = 1100

(A)MACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NACK/L	ELEVON	BDF/LAP	SPDRBK	REFERENCE INFORMATION
(ADV083)	DA62 B26C9 FB448V11GE26V85X10	.730	15.000	-12.000	.000	SREF 4.4119 SO.FT.
(ADV084)	DA62 B26C9 FB448V11GE26V85X10	.730	10.000	-12.000	.000	LREF 19.2298 INCHES
(ADV085)	DA62 B26C9 FB448V11GE26V85X10	.730	5.000	-12.000	.000	BREF 37.9358 INCHES
(ADV086)	DA62 B26C9 FB448V11GE26V85X10	.730	0.000	-12.000	.000	XTRP 43.5974 INCHES
(ADV087)	DA62 B26C9 FB448V11GE26V85X10	.730	-5.000	-12.000	.000	YTRP .0000 INCHES
(ADV088)	DA62 B26C9 FB448V11GE26V85X10	.730	-10.000	-12.000	.000	ZTRP 15.1875 INCHES
						SCALE .0405

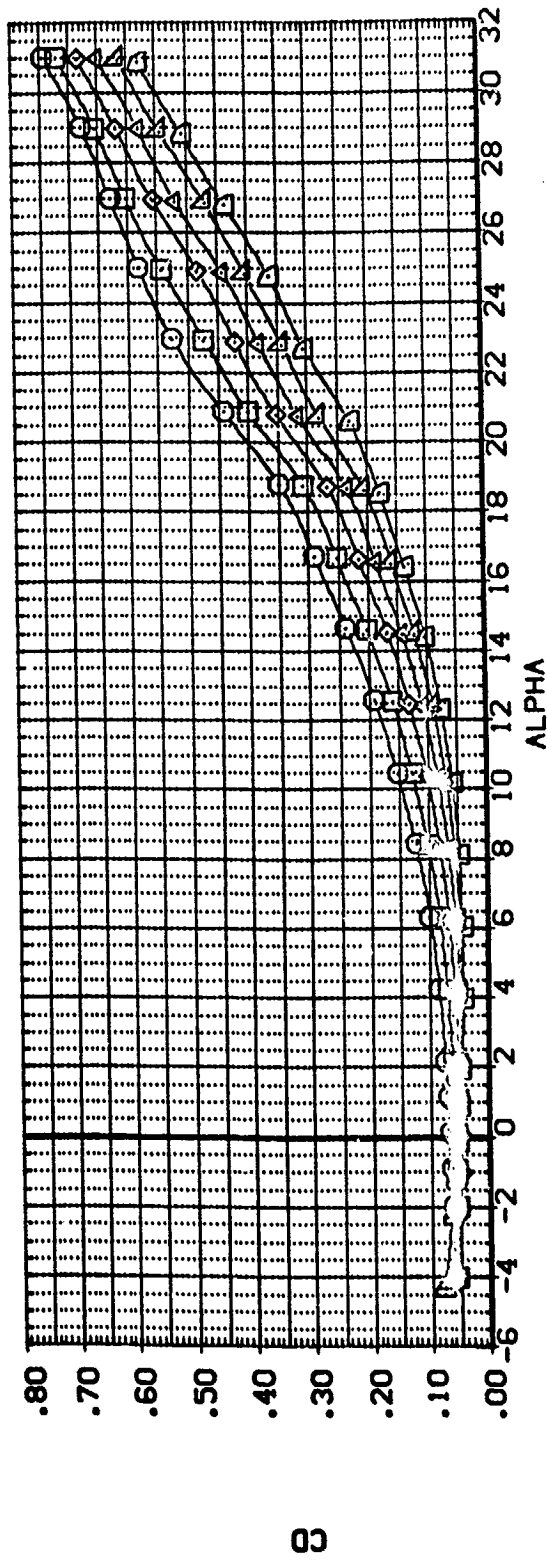
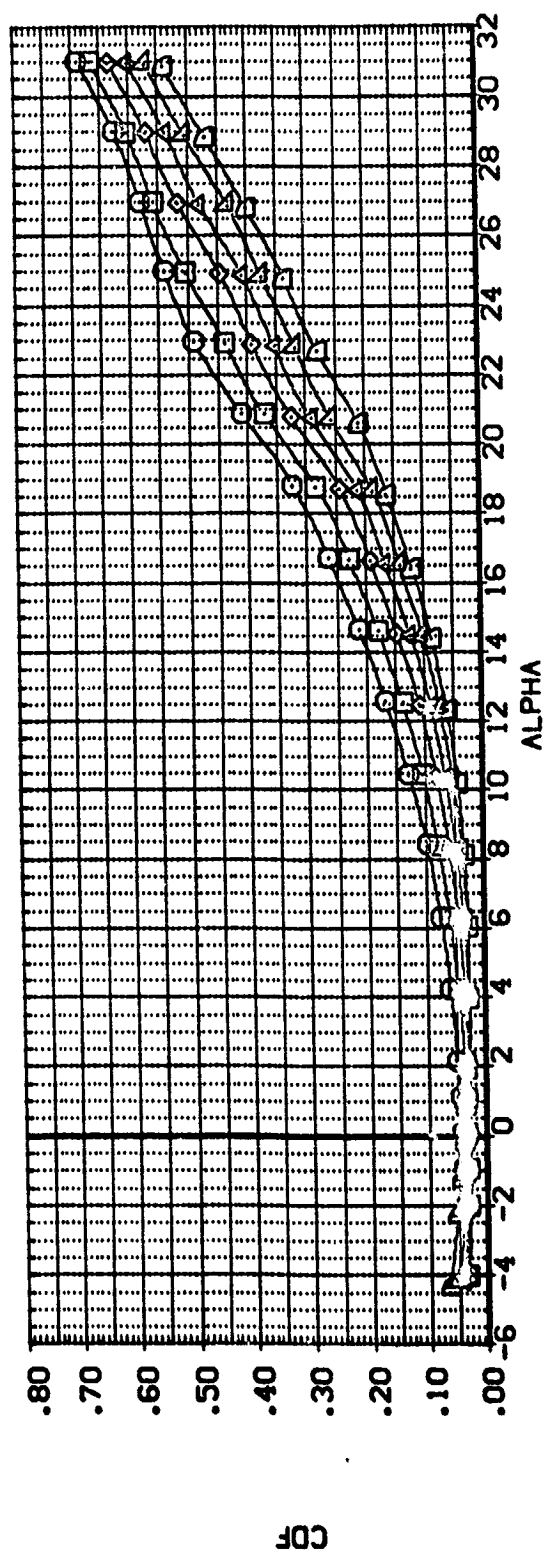


FIG 5 ELEVON EFFECTIVENESS 3 CLUSTERS FLUSH MOUNT X0 = 1100  
(A)MACH = .20

DATA SET SYMBOL	CONFIGURATION	DESCRIPTION	NACA/L	ELEVON	BDFLAP	SPOBRK	REFERENCE INFORMATION
(ADV083)	DA62	B26C9	.730	15.000	-12.000	.000	SREF 4.4119 50. FT.
(ADV084)	DA62	B26C9	.730	10.000	-12.000	.000	LREF 19.2289 INCHES
(ADV085)	DA62	B26C9	.730	5.000	-12.000	.000	BREF 37.5359 INCHES
(ADV086)	DA62	B26C9	.730	-5.000	-12.000	.000	XMRP 43.5374 INCHES
(ADV087)	DA62	B26C9	.730	-10.000	-12.000	.000	YMRP 15.0000 INCHES
						.000	ZMRP 15.1875 INCHES
							SCALE .0405

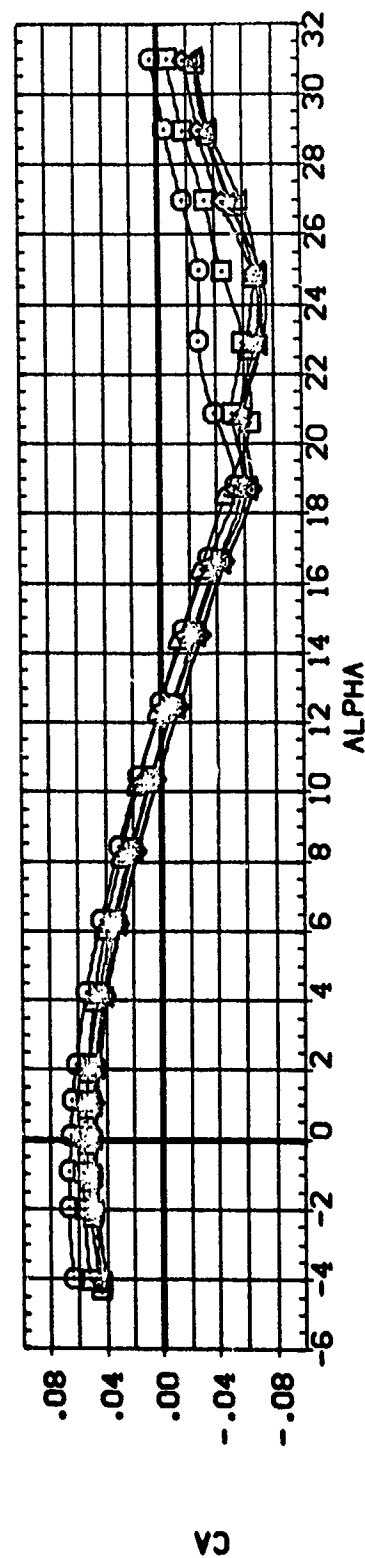
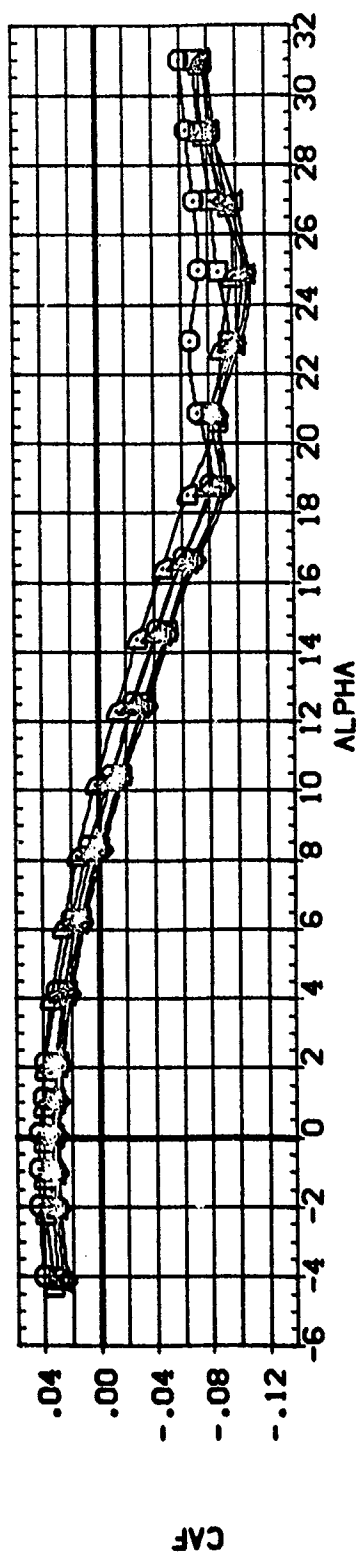
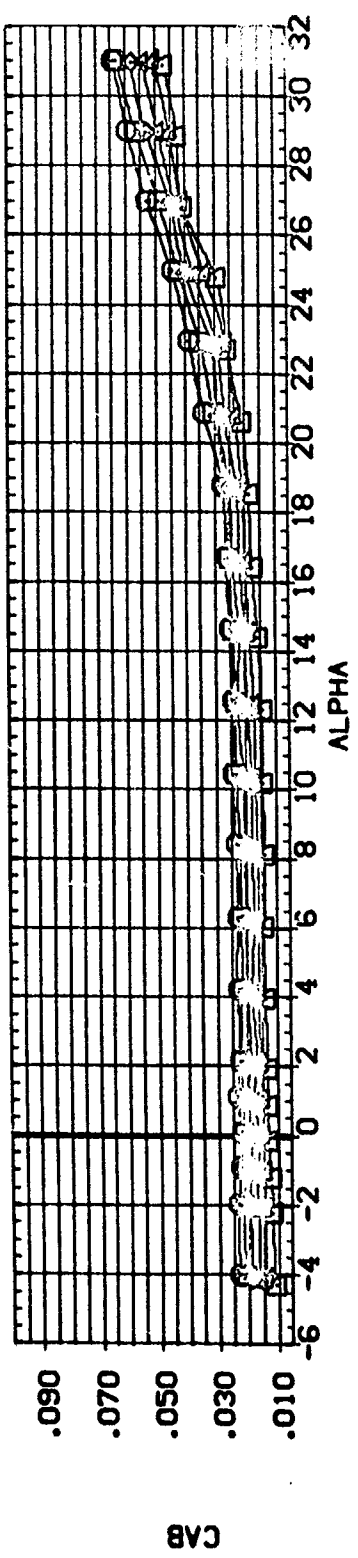


FIG 5 ELEVON EFFECTIVENESS 3 CLUSTERS FLUSH MOUNT X0 = 1100

(A)MACH = .20

DATA SET	SYMBOL	CONFIGURATION	DESCRIPTION	NACA/L	ELEVON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(AD083)	□	DA62	B26C9	.730	15.000	-12.000	.000	SREF 4.4119 50. FT.
(AD084)	□	DA62	B26C9	.730	10.000	-12.000	.000	LREF 19.2299 INCHES
(AD086)	□	DA62	B26C9	.730	5.000	-12.000	.000	BREF 37.9359 INCHES
(AD078)	□	DA62	B26C9	.730	0.000	-12.000	.000	XMRP 43.5974 INCHES
(AD085)	□	DA62	B26C9	.730	-5.000	-12.000	.000	YMRP 15.0000 INCHES
(AD087)	□	DA62	B26C9	.730	-10.000	-12.000	.000	ZMRP 15.1875 INCHES
								SCALE .0405

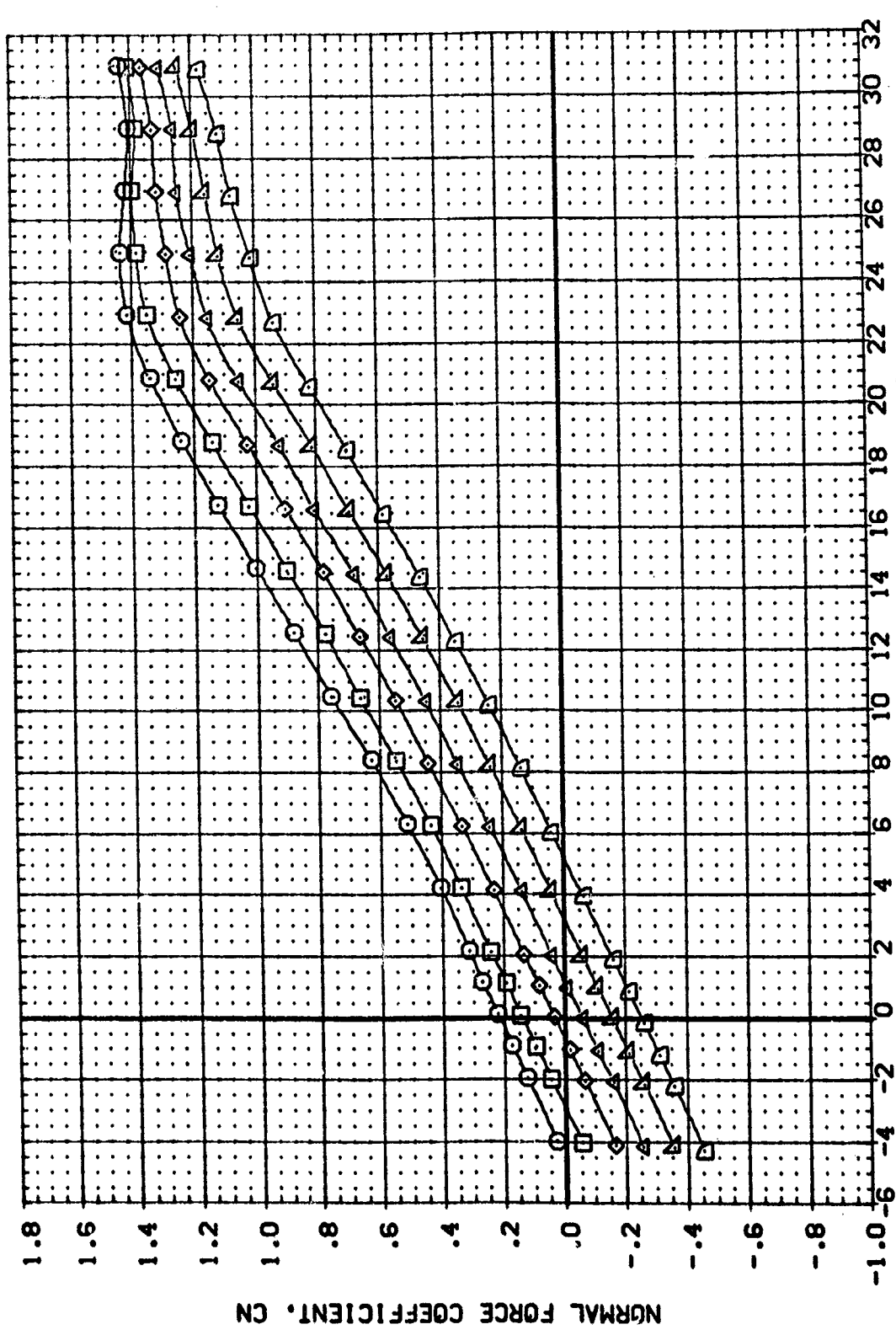


FIG 5 ELEVON EFFECTIVENESS 3 CLUSTERS FLUSH MOUNT X0 = 1100  
(A)MACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NACA/L	ELEVON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(ADV083)	DA62 B26C9 FBJ48W116E26VBR5X10	.730	15.000	-12.000	.000	SREF 4.4119 SO.FT. INCHES
(ADV084)	DA62 B26C9 FBJ48W116E26VBR5X10	.730	10.000	-12.000	.000	LREF 19.2259 INCHES
(ADV086)	DA62 B26C9 FBJ48W116E26VBR5X10	.730	5.000	-12.000	.000	BREF 37.9359 INCHES
(ADV078)	DA62 B26C9 FBJ48W116E26VBR5X10	.730	-5.000	-12.000	.000	YMRP 43.5974 INCHES
(ADV085)	DA62 B26C9 FBJ48W116E26VBR5X10	.730	-10.000	-12.000	.000	ZMRP 15.1975 INCHES
(ADV087)	DA62 B26C9 FBJ48W116E26VBR5X10	.730	-10.000	-12.000	.000	SCALE .0405

PITCHING MOMENT COEFFICIENT ABOUT FWD CG LIMIT (.65 LB). CLMFW

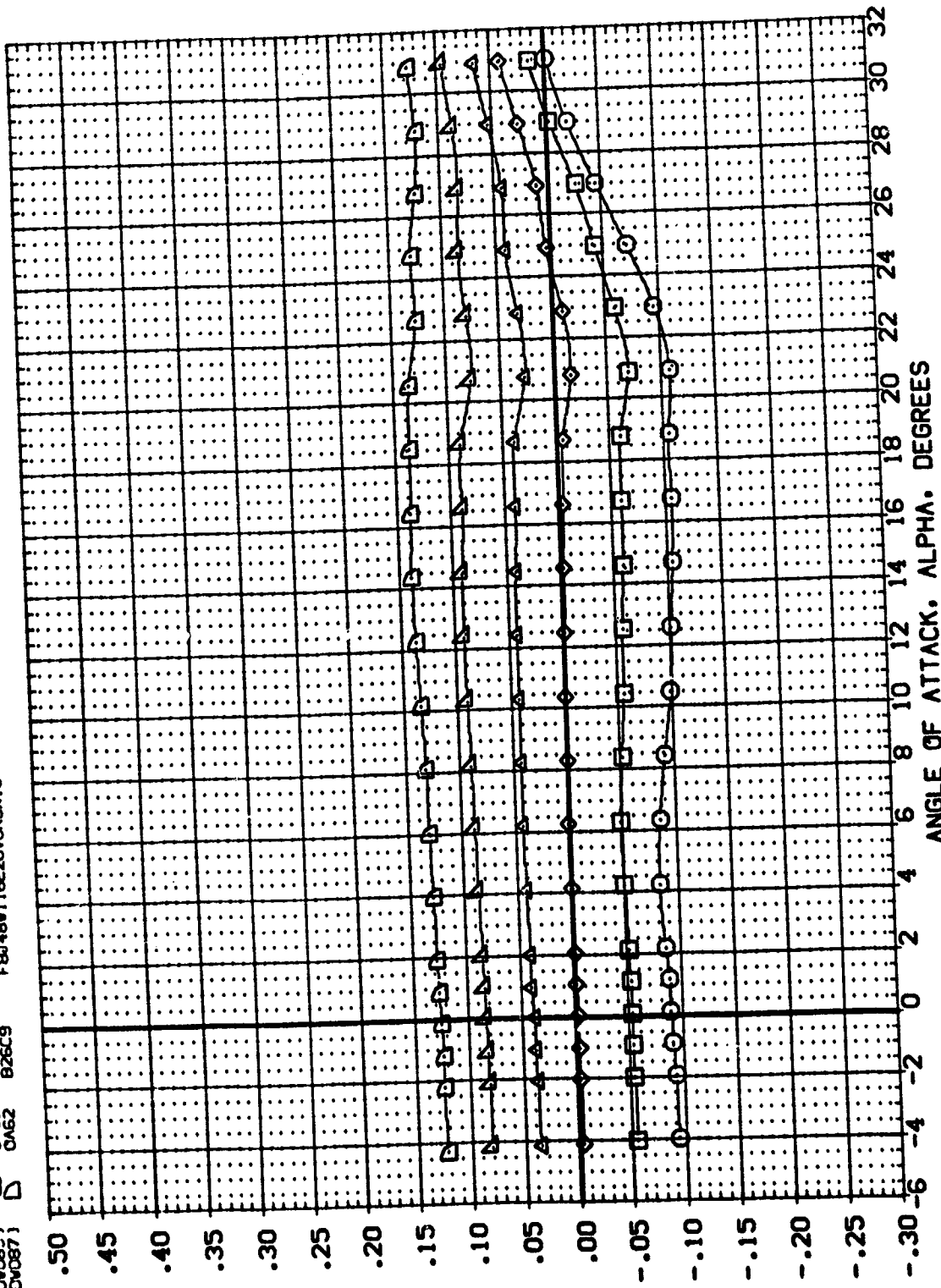


FIG 5 ELEVON EFFECTIVENESS 3 CLUSTERS FLUSH MOUNT XO = 1100

(A)MACH = .20



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACX/L	ELEVON	BDF/LAP	SPOBRK	REFERENCE INFORMATION
(ADV083)	0152 B26C9 FBJ48V116E26VBR5X10	.730	15.000	-12.000	.000	SREF 4.4119 50. FT.
(ADV084)	0152 B26C9 FBJ48V116E26VBR5X10	.730	10.000	-12.000	.000	LREF 19.2299 INC-ES
(ADV086)	0152 B26C9 FBJ48V116E26VBR5X10	.730	5.000	-12.000	.000	BREF 37.9359 INC-ES
(ADV078)	0152 B26C9 FBJ48V116E26VBR5X10	.730	.000	-12.000	.000	XMRP 43.5974 INC-ES
(ADV085)	0152 B26C9 FBJ48V116E26VBR5X10	.730	-5.000	-12.000	.000	YMRP .0000 INC-ES
(ADV087)	0152 B26C9 FBJ48V116E26VBR5X10	.730	-10.000	-12.000	.000	ZMRP 15.1975 INC-ES
						SCALE .0405

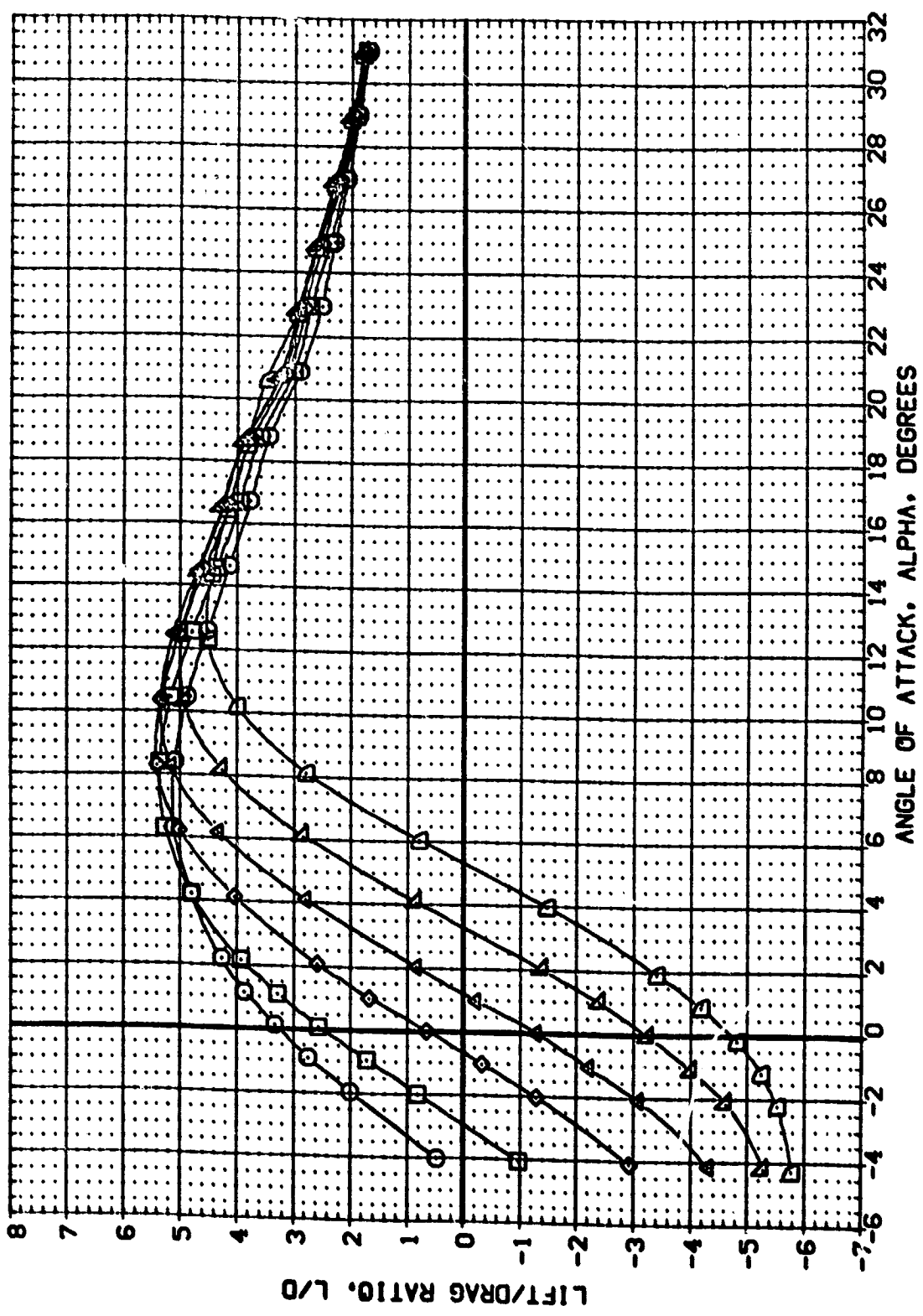


FIG 5 ELEVON EFFECTIVENESS 3 CLUSTERS FLUSH MOUNT X0 = 1100  
 (A)MACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NACA/L	ELEVON	BD/LAP	SPOBRK	REFERENCE INFORMATION
(ADVOB3)	B26C9	.730	15.000	-12.000	.000	SREF 4.4119 50. FT.
(ADVOB4)	B26C9	.730	10.000	-12.000	.000	LREF 19.2259 INCHES
(ADVOB6)	B26C9	.730	5.000	-12.000	.000	BREF 37.5359 INCHES
(ADVOB7)	B26C9	.730	-5.000	-12.000	.000	XMRP 43.5974 INCHES
(ADVCB5)	B26C9	.730	-10.000	-12.000	.000	YMRP 15.1875 INCHES
(ADVCB7)	B26C9	.730	-10.000	-12.000	.000	SCALE .0405

LONGITUDINAL CENTER OF PRESSURE LOCATION, FRACTION BODY LENGTH XCP/L

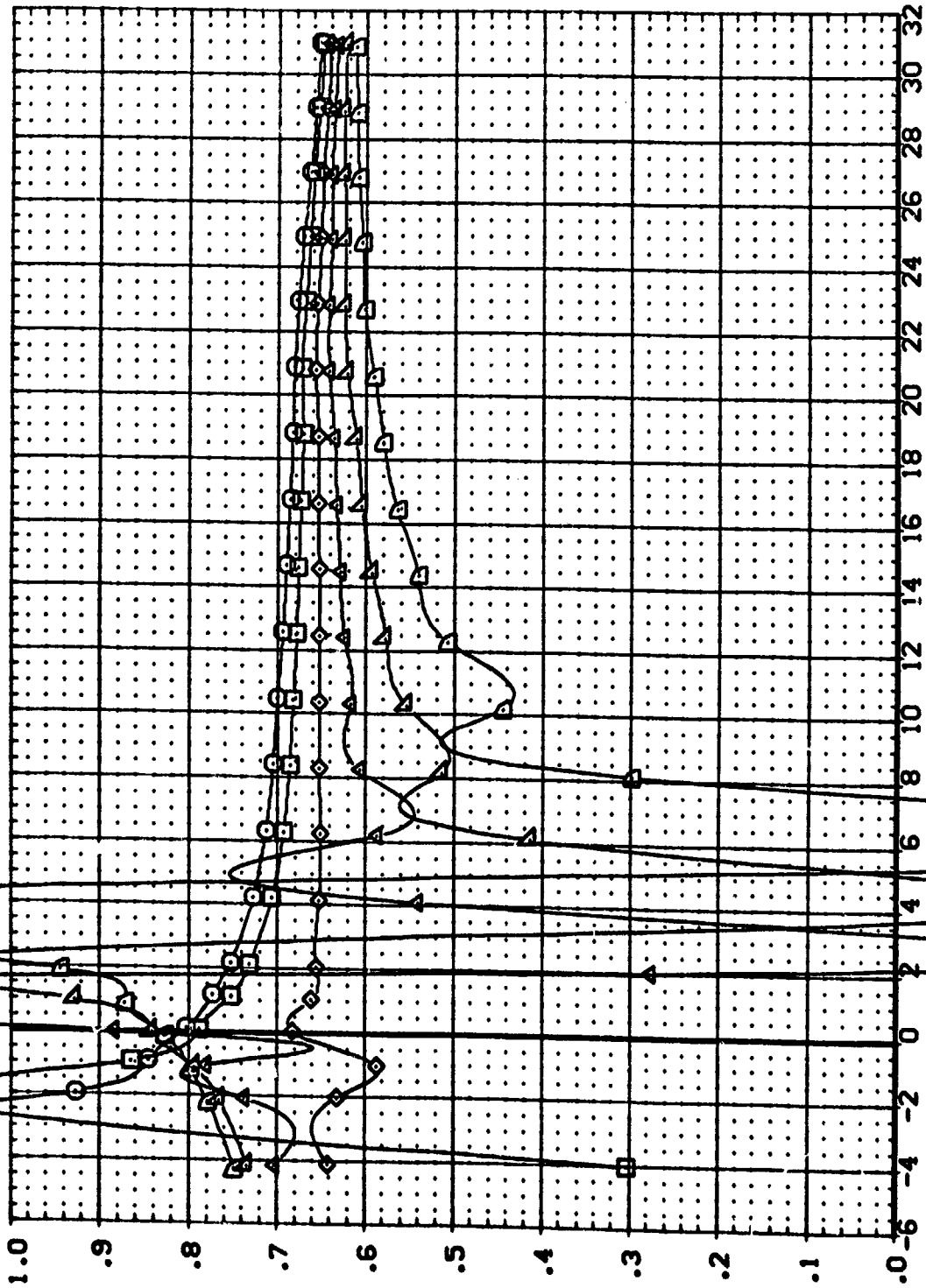


FIG 5 ELEVON EFFECTIVENESS 3 CLUSTERS FLUSH MOUNT X0 = 1100

(A)MACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NACA/L	ELEVON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(ADV083)	0A62 826C9 FBJ48V116E26V8RSX10	.730	15.000	-12.000	.000	4.4119 50.0 FT.
(ADV084)	0A62 826C9 FBJ48V116E26V8RSX10	.730	10.000	-12.000	.000	19.2299 INCHES
(ADV085)	0A62 826C9 FBJ48V116E26V8RSX10	.730	5.000	-12.000	.000	37.9359 INCHES
(ADV086)	0A62 826C9 FBJ48V116E26V8RSX10	.730	0.000	-12.000	.000	43.5974 INCHES
(ADV087)	0A62 826C9 FBJ48V116E26V8RSX10	.730	-5.000	-12.000	.000	.0000 INCHES
		.730	-10.000	-12.000	.000	15.1875 INCHES
						.0405 SCALE

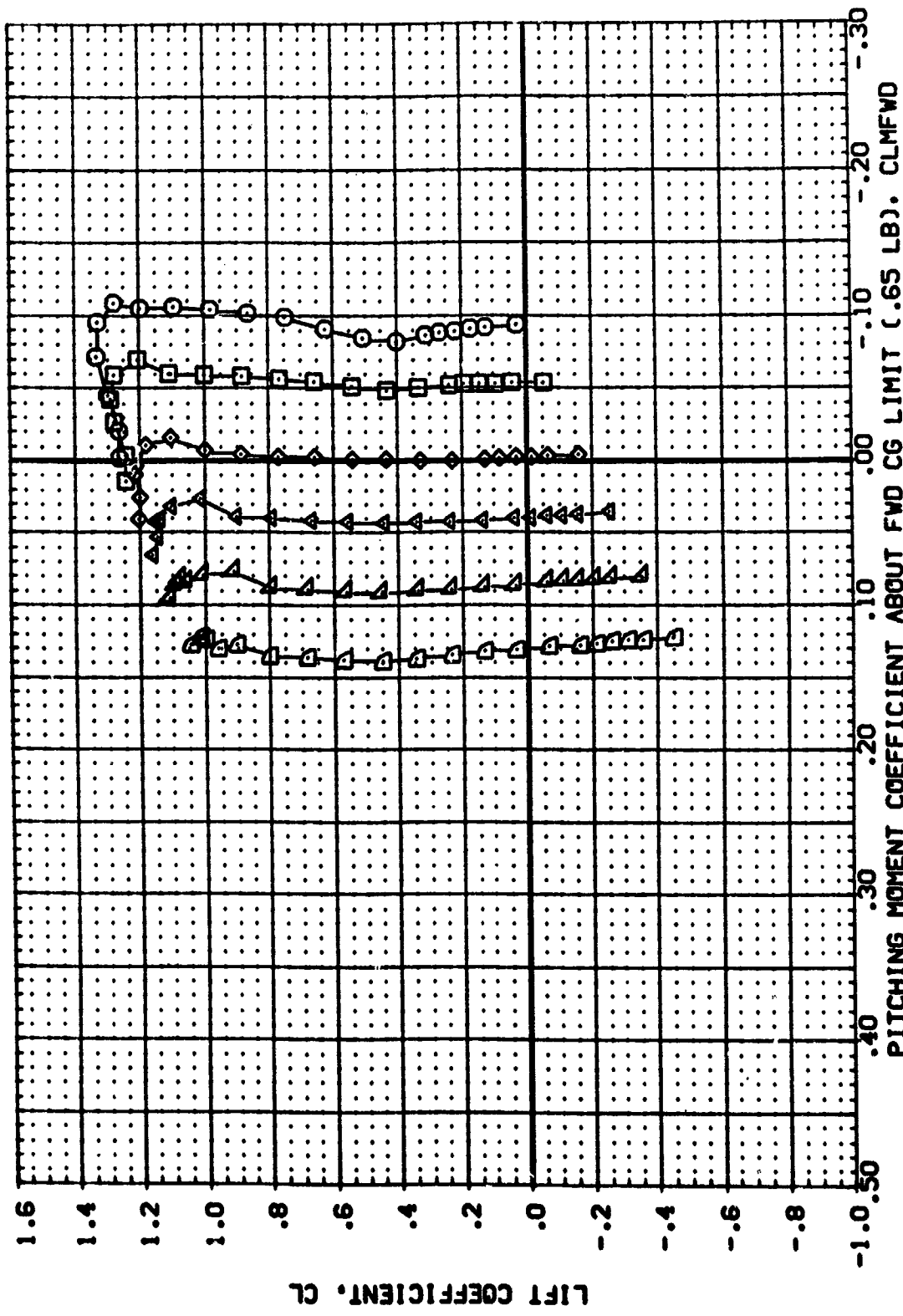


FIG 5 ELEVON EFFECTIVENESS 3 CLUSTERS FLUSH MOUNT X0 = 1100

(A)MACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NACA/L	ELEVON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(ADV083)	0A52 B26C9 FBJ48V116E26V8R5X10	.730	15.000	-12.000	.000	SREF 4.4119 50. FT.
(ADV084)	0A52 B26C9 FBJ48V116E26V8R5X10	.730	10.000	-12.000	.000	LREF 19.2299 INCHES
(ADV086)	0A52 B26C9 FBJ48V116E26V8R5X10	.730	5.000	-12.000	.000	BREF 37.9359 INCHES
(ADV078)	0A52 B26C9 FBJ48V116E26V8R5X10	.730	.000	-12.000	.000	YREF 43.5974 INCHES
(ADV085)	0A52 B26C9 FBJ48V116E26V8R5X10	.730	-5.000	-12.000	.000	ZREF 15.1875 INCHES
(ADV087)	0A52 B26C9 FBJ48V116E26V8R5X10	.730	-10.000	-12.000	.000	SCALE .0405 SCALE

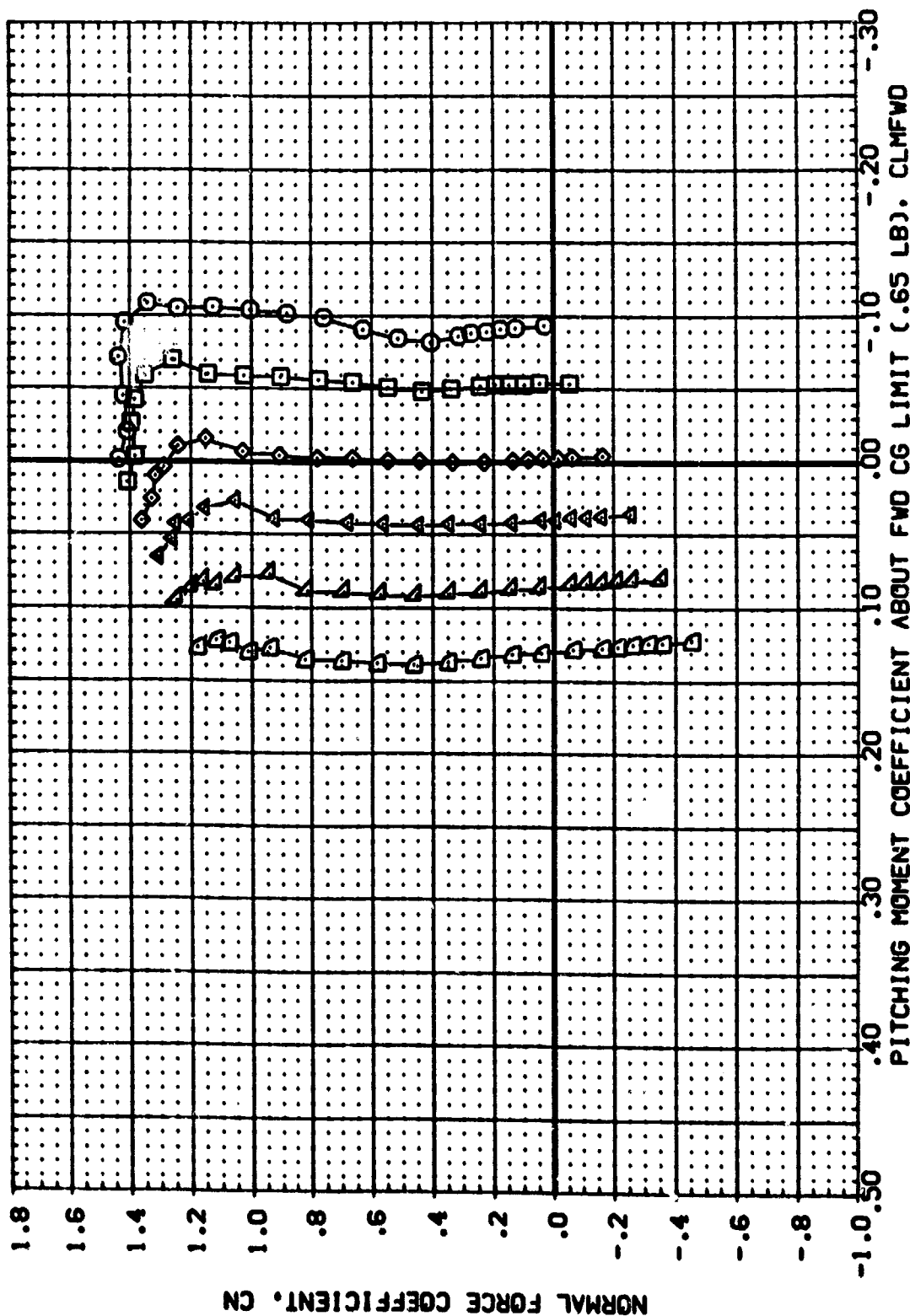


FIG 5 ELEVON EFFECTIVENESS 3 CLUSTERS FLUSH MOUNT X0 = 1100

(A)MACH = .20

DATA SET SYMBL	CONFIGURATION DESCRIPTION	NACA/L	ELEVON	BD FLAP	SPDRK	REFERENCE INFORMATION
(AD083)	DA62 B26C9 FBJ48V116E26V8PSX10	.730	15.000	-12.000	.000	SREF 4.4119 50. FT.
(AD084)	DA62 B26C9 FBJ48V116E26V8PSX10	.730	10.000	-12.000	.000	LREF 19.2299 INCHES
(AD086)	DA62 B26C9 FBJ48V116E26V8PSX10	.730	5.000	-12.000	.000	BREF 37.9759 INCHES
(AD078)	DA62 B26C9 FBJ48V116E26V8PSX10	.730	-5.000	-12.000	.000	WREF 43.5374 INCHES
(AD085)	DA62 B26C9 FBJ48V116E26V8PSX10	.730	-10.000	-12.000	.000	WREF 15.1875 INCHES
(AD087)	DA62 B26C9 FBJ48V116E26V8PSX10	.730	-10.000	-12.000	.000	WREF 15.1875 INCHES

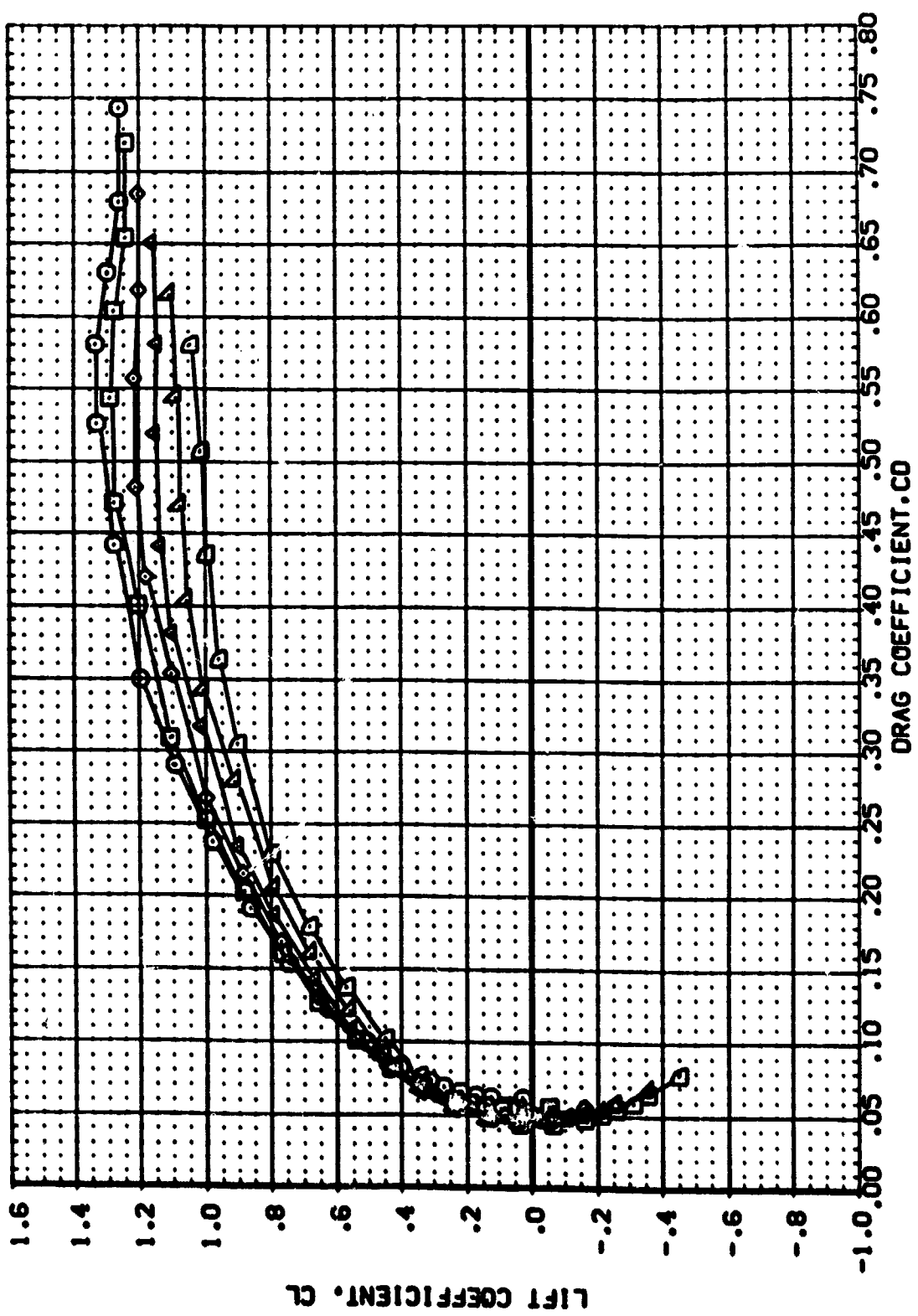
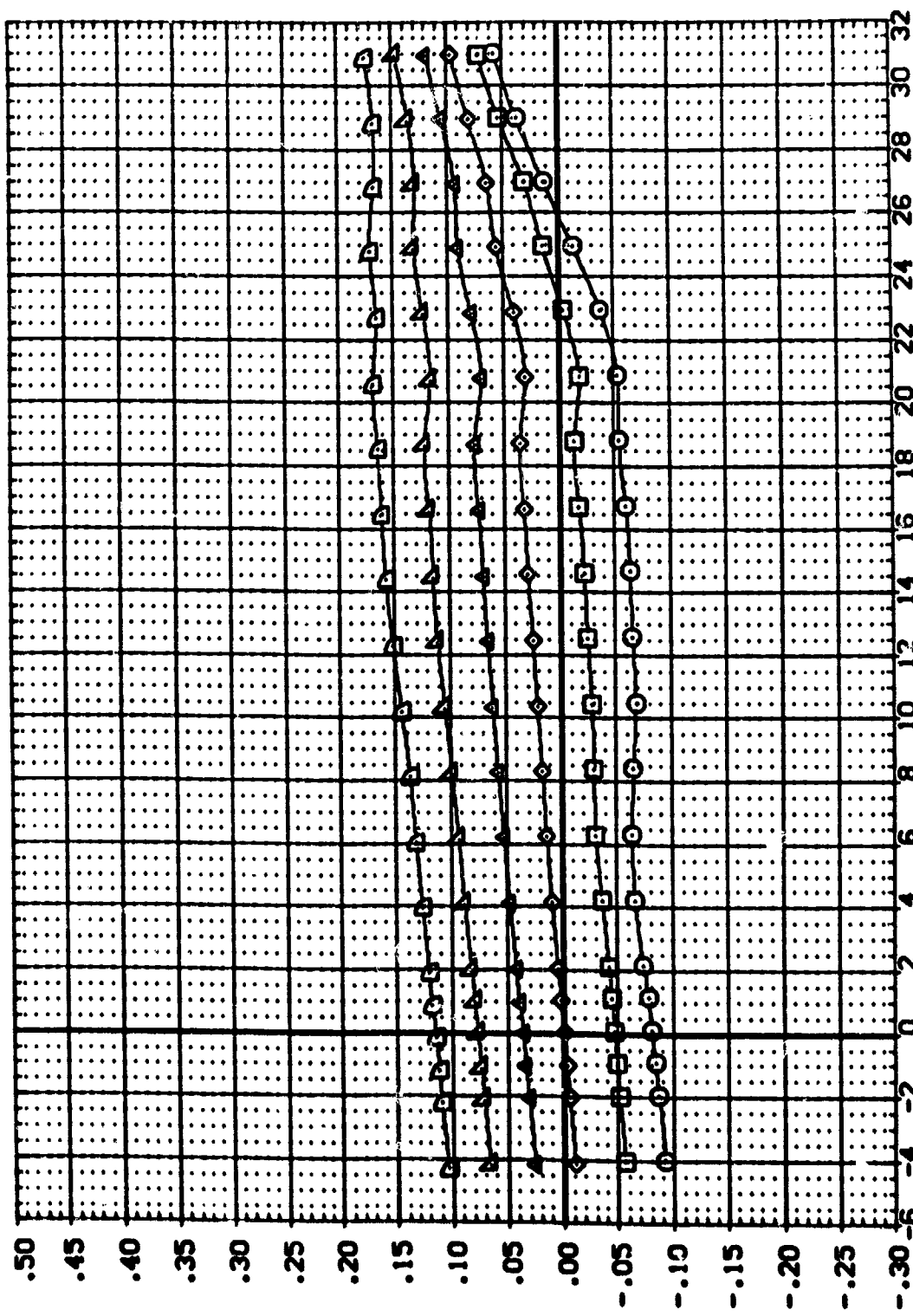


FIG 5 ELEVON EFFECTIVENESS 3 CLUSTERS FLUSH MOUNT X0 = 1100

(A)MACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACH	ELEVON	BD FLAP	SPOBRK	REFERENCE INFORMATION
(CDV083)	FBJ48V11GE26V8RSX10	.730	15.000	-12.000	.000	SREF 4.4119
(CDV084)	FBJ48V11GE26V8RSX10	.730	10.000	-12.000	.000	LREF 19.2299
(CDV086)	FBJ48V11GE26V8RSX10	.730	5.000	-12.000	.000	BREF 37.9369
(CDV078)	FBJ48V11GE26V8RSX10	.730	.000	-12.000	.000	XREF 44.3813
(CDV085)	FBJ48V11GE26V8RSX10	.730	-5.000	-12.000	.000	YREF .0000
(CDV087)	FBJ48V11GE26V8RSX10	.730	-10.000	-12.000	.000	ZREF 15.1875
						SCALE .0405

PITCHING MOMENT COEFFICIENT ABOUT AFT CG LIMIT (.675 LB). CLMAFT



ANGLE OF ATTACK, ALPHA, DEGREES

FIG 5 ELEVON EFFECTIVENESS 3 CLUSTERS FLUSH MOUNT X0 = 1100

(A)MACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	SPDRK	RUDDER	A'LRON	REFERENCE INFORMATION
(804002)	0452 825C3 FB VI16Z5V85K3	.000	.000	.000	.000	SREF 4.1119 50. FT.
(804003)	0452 825C3 FB VI16Z5V85K3	5.000	.000	.000	.000	LREF 19.2259 INCHES
(804004)	0452 825C3 FB VI16Z5V85K3	10.000	.000	.000	.000	BREF 37.5359 INCHES
(804005)	0452 825C3 FB VI16Z5V85K3	15.000	.000	.000	.000	ZHREF 43.5574 INCHES
						ZHREF 5.0000 INCHES
						ZHREF 5.1875 INCHES
						SCALE .0405

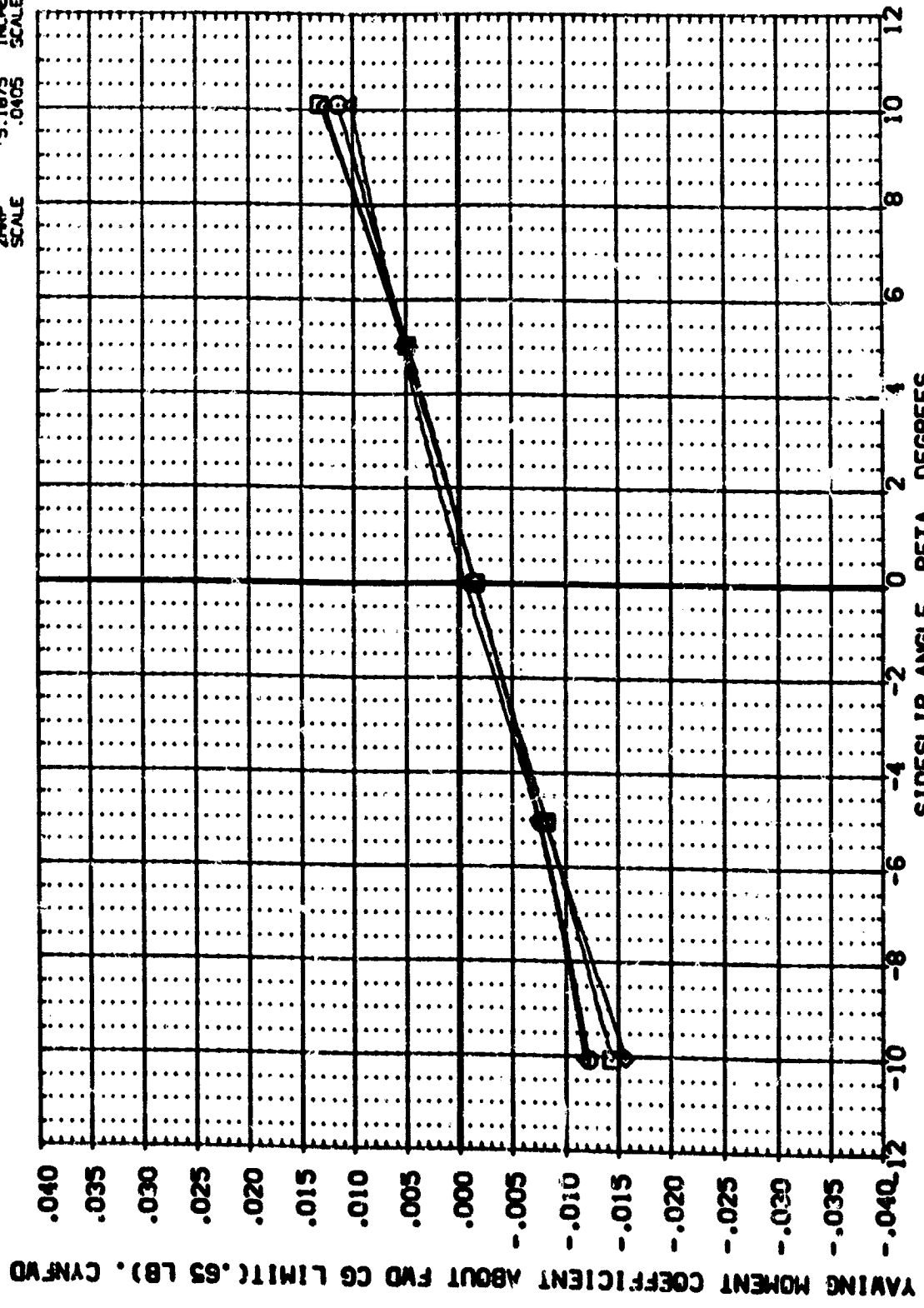


FIG 6 LATERAL - DIRECTIONAL CHARACTERISTICS NO NACELLES

(A)MACH = .20

DATA SET SYMBOL CONFIGURATION DESCRIPTION

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(R0V002)	0A62 B2C79 F8 V116E26V8R5X9
(R0V003)	0A62 B2C79 F8 V116E26V8R5X9
(R0V004)	0A62 B2C79 F8 V116E26V8R5X9
(R0V005)	0A62 B2C79 F8 V116E26V8R5X9

REFERENCE INFORMATION

REFERENCE INFORMATION	SO. FT.	INCHES
REF	4.4119	INCHES
REF	19.2299	INCHES
REF	37.9359	INCHES
REF	43.5974	INCHES
REF	15.0000	INCHES
REF	15.1875	INCHES
REF	.0405	SCALE

ALPHA .000  
5.000  
10.000  
15.000

SPDRK .000  
.000  
.000  
.000

RUDER .000  
.000  
.000  
.000

AIRLON .000  
.000  
.000  
.000

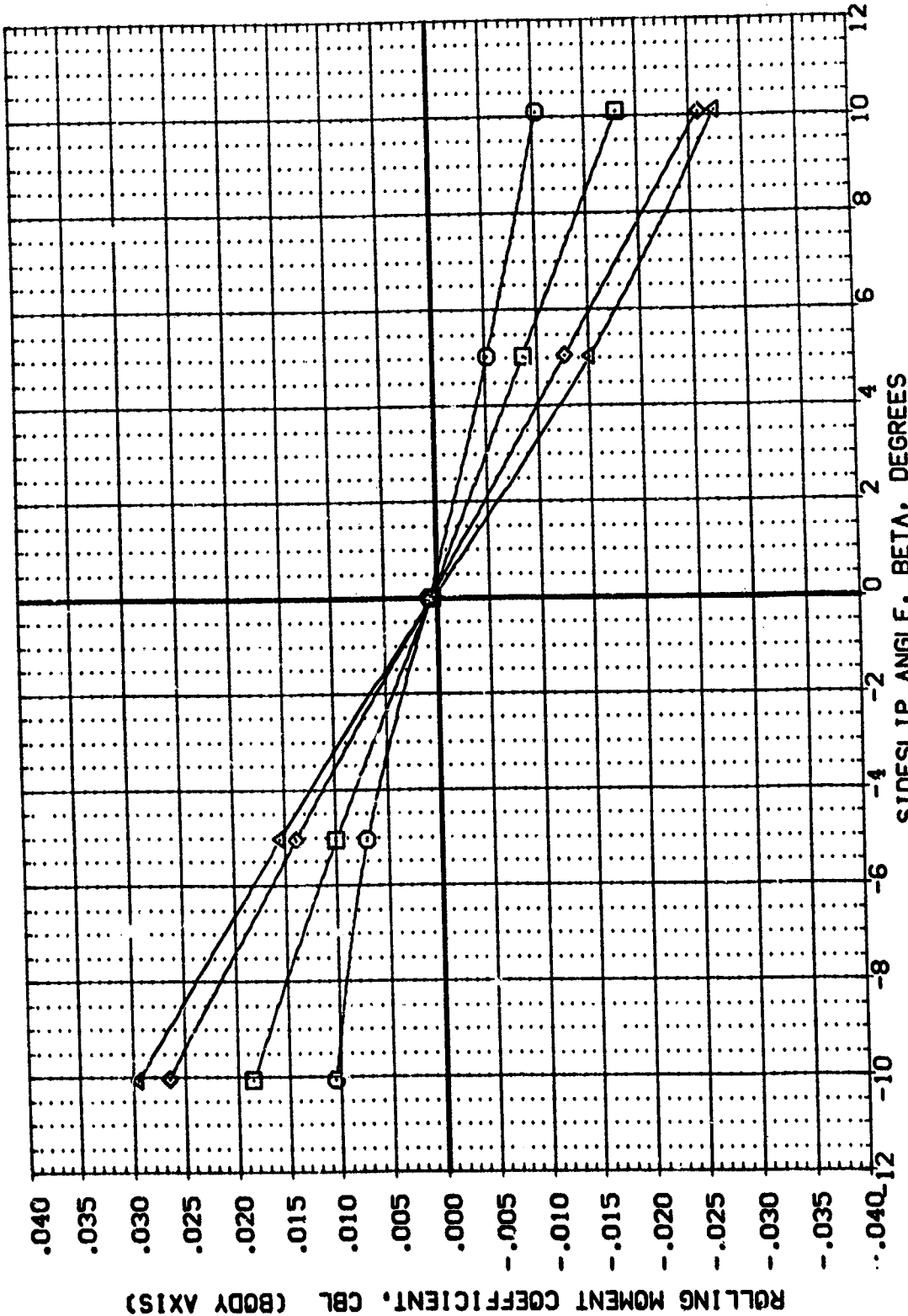


FIG 6 LATERAL - DIRECTIONAL CHARACTERISTICS NO NACELLES  
(A) MACH = .20



DATA SET SYMBOL      CONFIGURATION DESCRIPTION

(RDV002)	0A62	B26C9	F8	V116E26V8RSX9
(RDV003)	0A62	B26C9	F8	V116E26V8RSX9
(RDV004)	0A62	B26C9	F8	V116E26V8RSX9
(RDV005)	0A62	B26C9	F8	V116E26V8RSX9

ALPHA      SPOBRK      RUDDER      AILRON      REFERENCE INFORMATION

.000	.000	.000	.000	SREF	4.4119	50. FT.
5.000	.000	.000	.000	LREF	19.2299	INCHES
10.000	.000	.000	.000	BREF	37.9359	INCHES
15.000	.000	.000	.000	YMRP	43.5974	INCHES
				ZMRP	15.1875	INCHES
				SCALE	.0405	SCALE

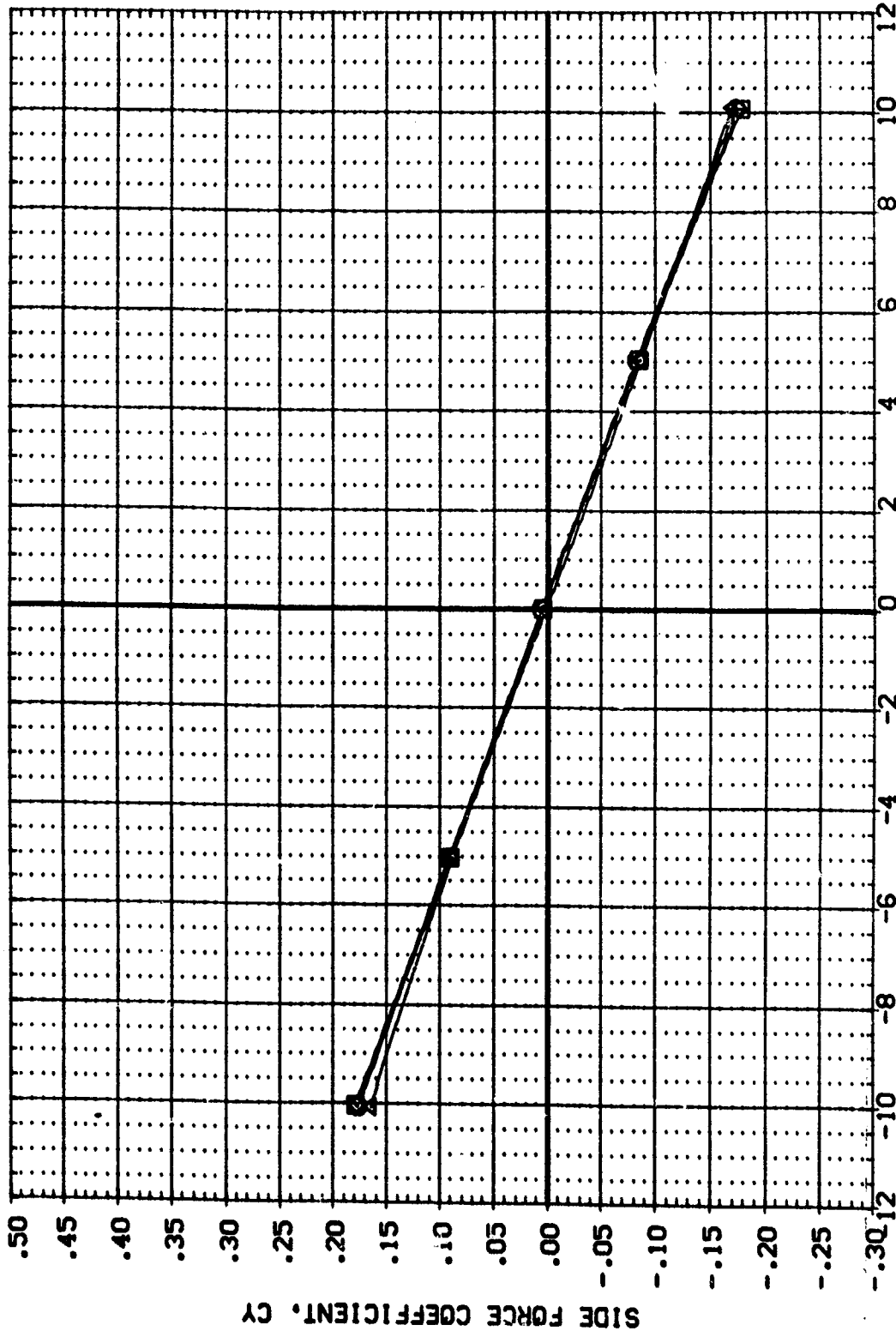


FIG 6 LATERAL - DIRECTIONAL CHARACTERISTICS NO NACELLES

(A)MACH = .20

(DDW002)

0A62 B26C9 F8 W116E26V8R5X9

SYMBOL MACH  
O .200

PARAMETRIC VALUES  
BDFLAP -12.000  
AILRON .000  
SPOBRK .000

ELEVON .000  
RUDDER .000  
NACA/L 1000.000

DATA SOURCE  
ALPHA .000  
10.000

DATASET  
DDW002  
DDW004

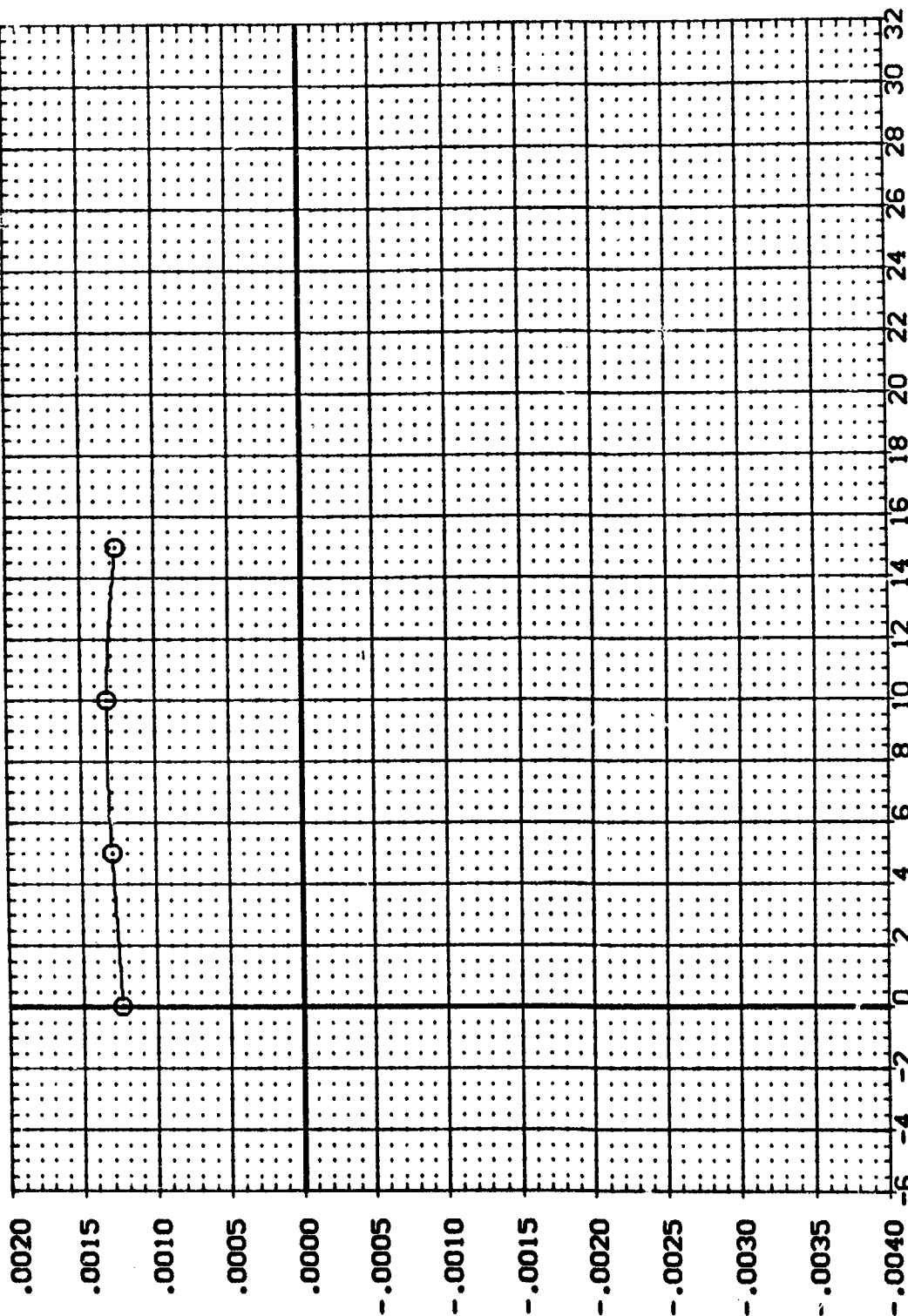
ALPHA 5.000  
15.000

SRF LREF  
BREF XMRP  
YMRP ZMRP  
SCALE

REFERENCE INFORMATION  
4.4119  
19.2298  
37.9359  
43.5974  
15.0000  
15.1875  
15.0405

50 FT.  
INCHES  
INCHES  
INCHES  
INCHES  
INCHES  
SCALE

YAWING MOMENT COEFFICIENT DERIVATIVE WITH BETA, CYNBET, PER DEGREE



ANGLE OF ATTACK, ALPHA, DEGREES

FIG 6 LATERAL - DIRECTIONAL CHARACTERISTICS NO NACELLES



0A62 B26C9 F8 W116E26V8R5X9 (00W002)

SYMBOL	NACH	PARAMETRIC VALUES				DATA SOURCE		DATASET		ALPHA		SREF		REFERENCE INFORMATION	
○	.200	BDFLAP	-12.000	ELEVON	.000	DATASET	ALPHA	DDW003	5.000	LREF	4.4119	SO.FT.	19.2298	INCHES	
		AILERON	.000	RUDDER	.000	DDW002	10.000	DDW005	15.000	BREF	37.9559	INCHES	43.5574	INCHES	
		SPOILER	.000	NACX/L	1000.000	DDW004				YMRP	.0000	INCHES	15.1875	INCHES	
										ZMRP	.0405	SCALE			

ROLLING MOMENT COEFFICIENT DERIVATIVE WITH BETA, CBLBET, PER DEGREE

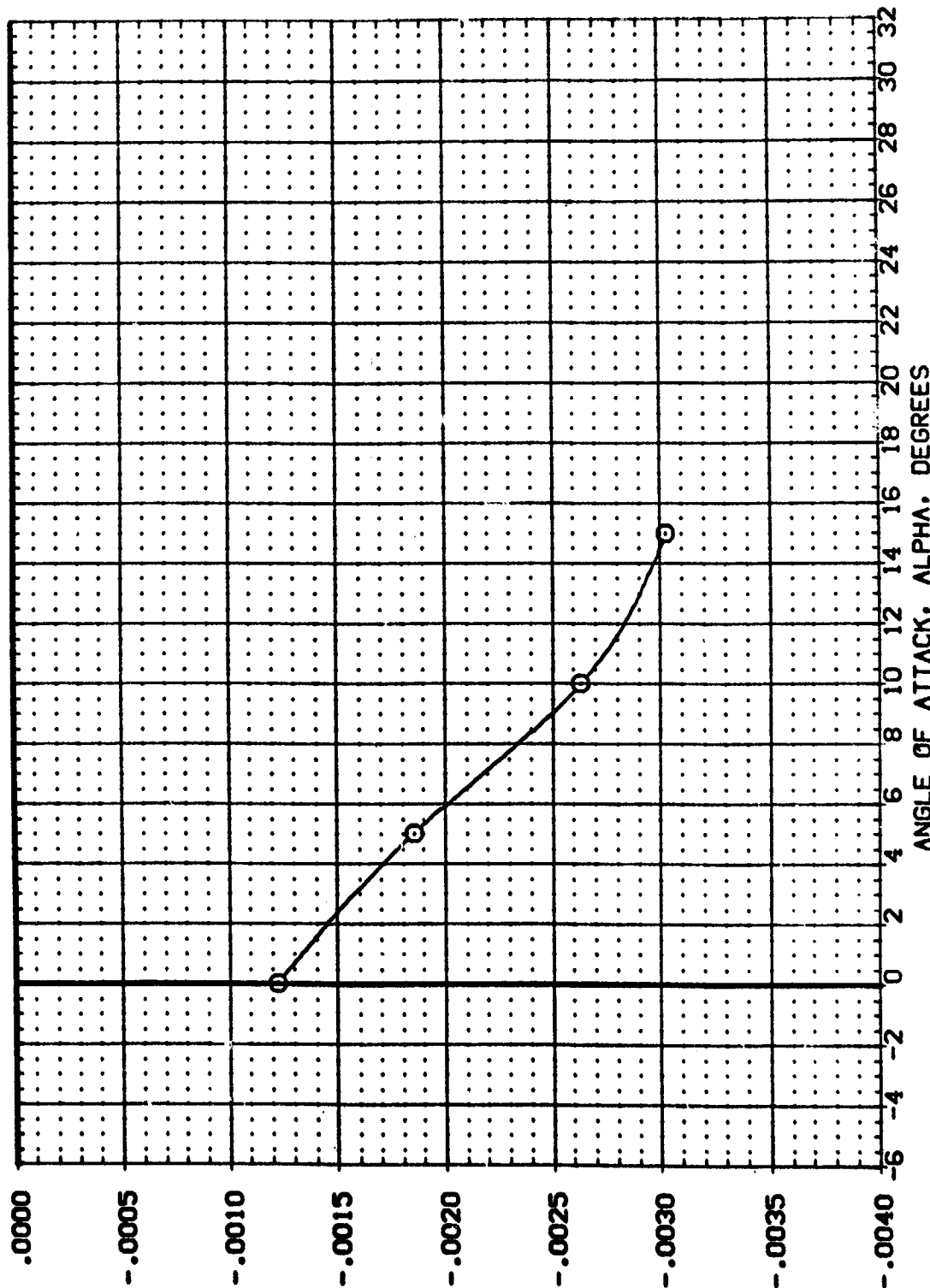


FIG 6 LATERAL - DIRECTIONAL CHARACTERISTICS NO NACELLES

0A62 B26C9 F8 W116E26V8R5X9 (DDW002)

SYMBOL	MACH	PARAMETRIC VALUES				DATA SOURCE		REFERENCE INFORMATION			
0	.200	BOFLAP	ELEVON	RUDDER	NACX/L	.000	ALPHA	DATASET	ALPHA	SREF	50.FT.
		AILRON	.000	.000	.000	.000	5.000	DDW003	5.000	LREF	INCHES
		SPOBRK	.000	.000	1000.000	.000	10.000	DDW005	15.000	BREF	INCHES
										YMRP	INCHES
										ZMRP	INCHES
										SCALE	INCHES
											SCALE

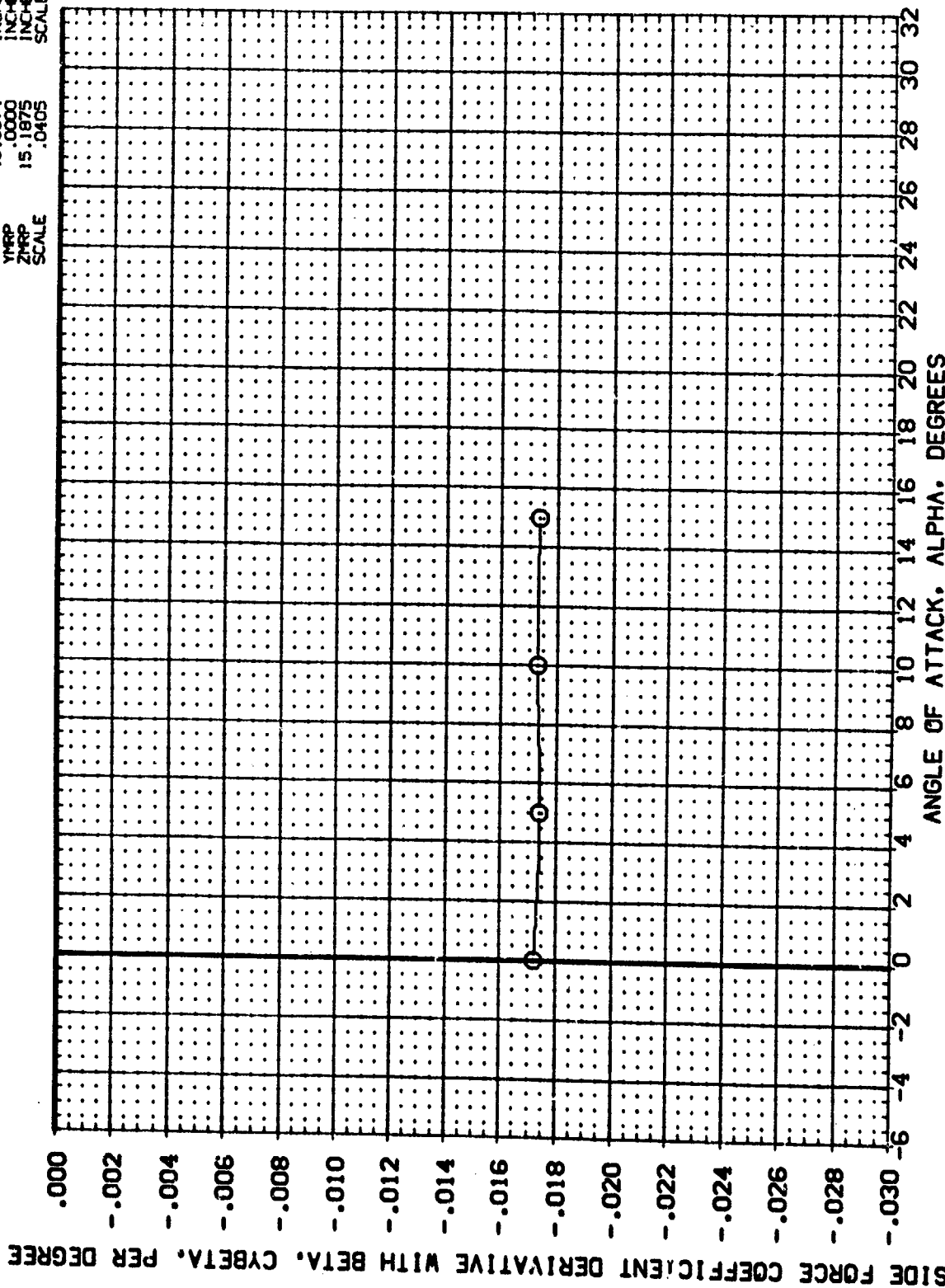


FIG 6 LATERAL - DIRECTIONAL CHARACTERISTICS NO NACELLES

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	SPDRBK	RUDDER	AIRLON	REFERENCE INFORMATION
(RDV002)	0A62 B26C9 F8 VII6E26V8RSX9	.000	.000	.000	.000	SREF 4.4119 50.FT.
(RDV016)	0A62 B26C9 F8 VII6E26V8RSX9	.000	.000	-7.500	.000	LREF 19.2299 INCHES
(RDV014)	0A62 B26C9 F8 VII6E26V8RSX9	.000	.000	-15.000	.000	BREF 37.9359 INCHES
						XMRP 43.5974 INCHES
						YMRP 15.0000 INCHES
						ZMRP 15.1875 INCHES
						SCALE .0405 SCALE

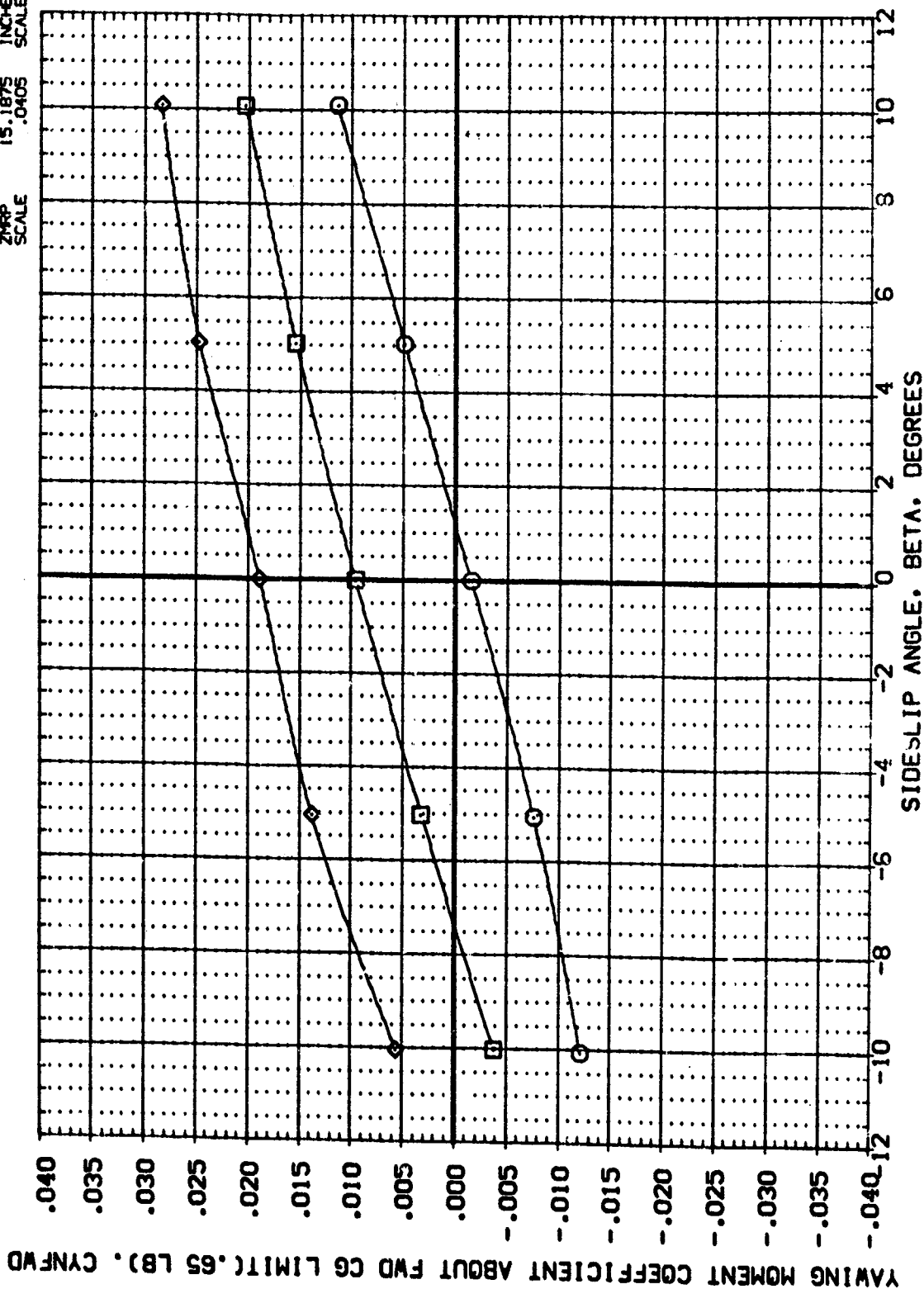


FIG 7 LATERAL - DIRECTIONAL RUDDER CHARACTERISTICS NO NACELLES

(A)MACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	SPDRBK	RUDDER	AILRON	REFERENCE INFORMATION
(RDV002)	DAG2 B26C9 F8 VIIIEZSVBR5X9	.000	.000	.000	.000	SREF 4.4119 50.FT.
(RDV016)	DAG2 B26C9 F8 VIIIEZSVBR5X9	.000	.000	-7.500	.000	LREF 19.2299 INCHES
(RDV014)	DAG2 B26C9 F8 VIIIEZSVBR5X9	.000	.000	-15.000	.000	BREF 37.5359 INCHES
						XMRP 43.5974 INCHES
						YMRP .0000 INCHES
						ZMRP 15.1875 INCHES
						SCALE .0405

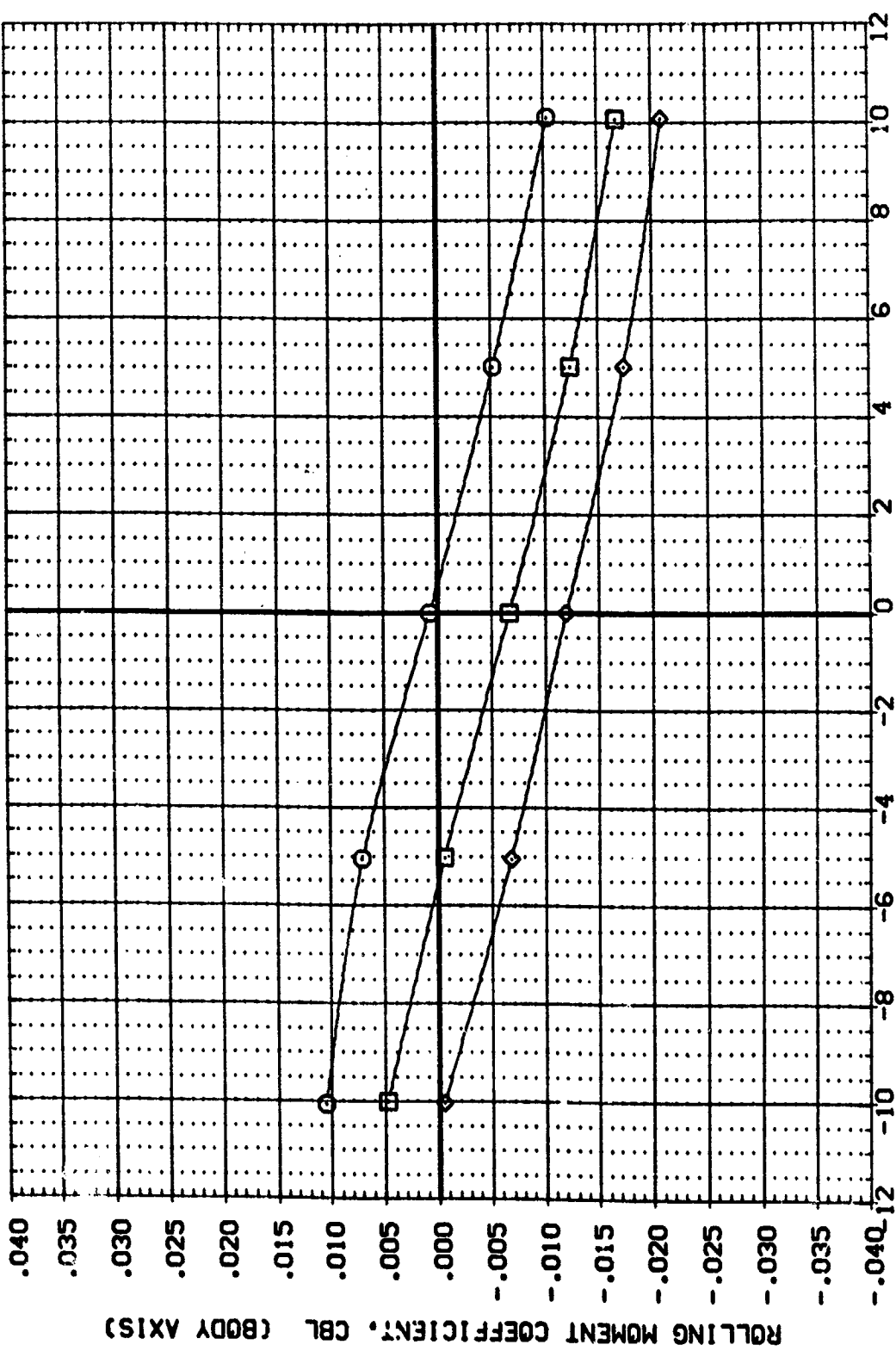


FIG 7 LATERAL - DIRECTIONAL RUDDER CHARACTERISTICS NO NACELLES

(A)MACH = .20

DATA SET SYMBOL    CONFIGURATION DESCRIPTION

(RD0002)	0A62	B26C9	F8	V116E26V8RSX9
(RD0016)	0A62	B26C9	F8	V116E26V8RSX9
(RD0014)	0A62	B26C9	F8	V116E26V8RSX9

ALPHA    SPDRK    RUDDER    AIRLON    REFERENCE INFORMATION

.000	.000	.000	.000	SREF	4.4119	50. FT.
.000	.000	-7.500	.000	LREF	19.2299	INCHES
.000	.000	-15.000	.000	BREF	37.9359	INCHES
				XMRP	43.5974	INCHES
				YMRP	.0000	INCHES
				ZMRP	15.1875	INCHES
				SCALE	.0405	SCALE

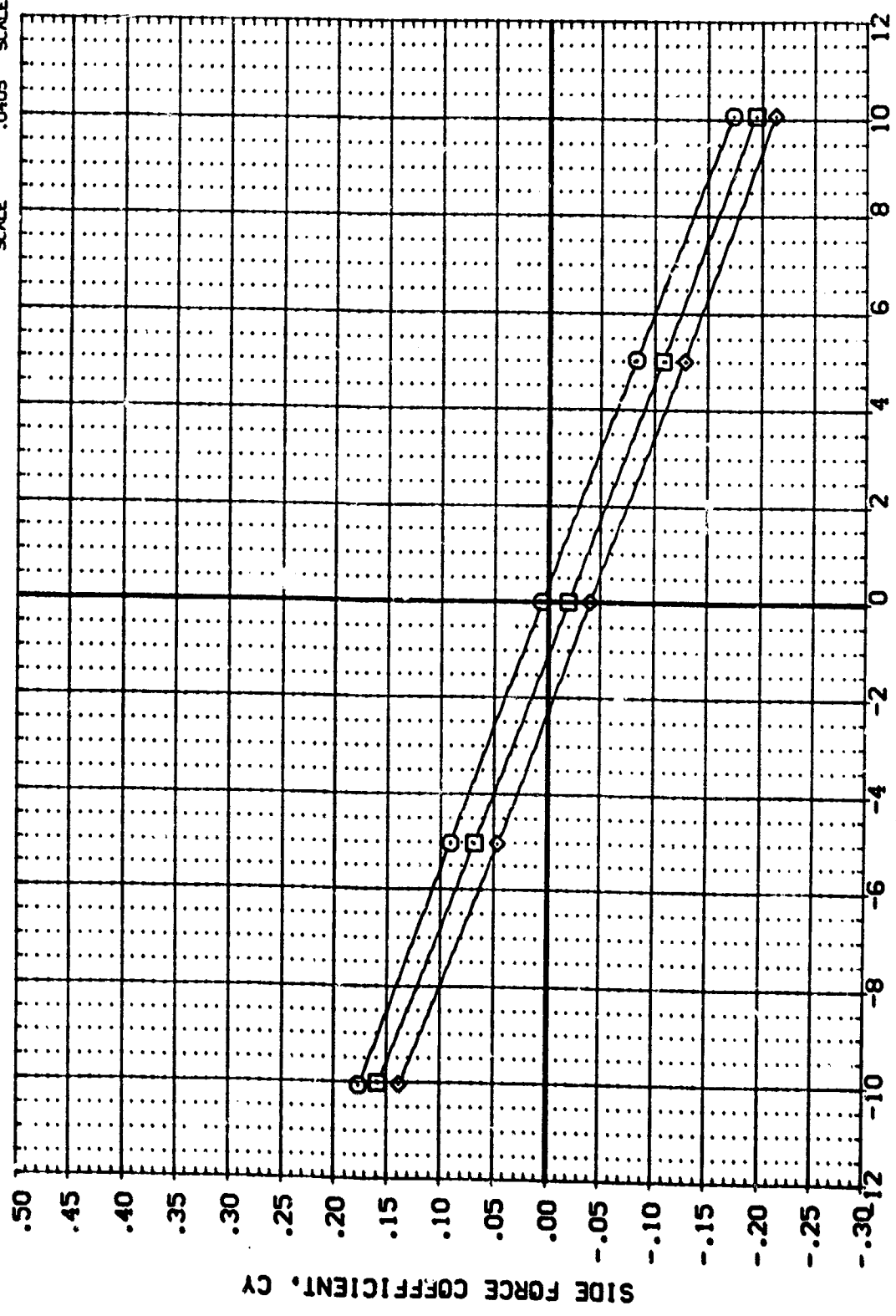


FIG 7 LATERAL - DIRECTIONAL RUDDER CHARACTERISTICS NO NACELLES

(A)MACH = .20

0A62 B26C9 F8 W116E26V8R5X9 (DDW002)

SYMBOL	MACH	PARAMETRIC VALUES				DATA SOURCE		REFERENCE INFORMATION			
		ALPHA	BOFLAP	AILRON	NACK/L	RUDDER	DATASET	RUDDER	SREF	LREF	SO.FT.
○	.200	.000	.000	.000	.000	.000	DDW002	-7.500	19.2299	4.4115	INCHES
		ELEVON				-15.000	DDW016		37.9359	37.9359	INCHES
		SPOBRK							43.5974	43.5974	INCHES
									.0000	.0000	INCHES
									15.1875	15.1875	INCHES
									.0405	.0405	SCALE

YAWING MOMENT COEFFICIENT DERIVATIVE WITH BETA, CYMBET, PER DEGREE

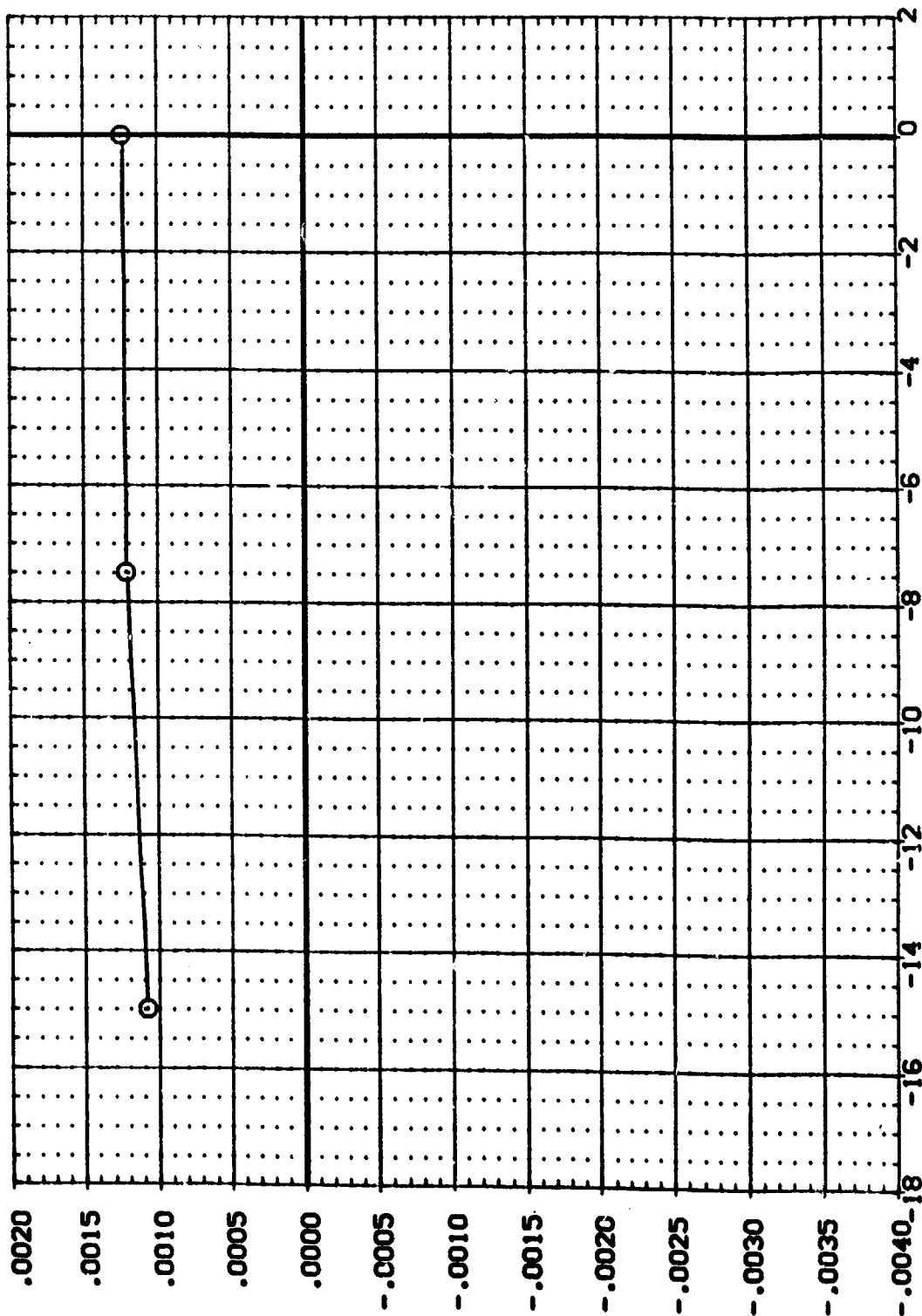


FIG 7 LATERAL - DIRECTIONAL RUDDER CHARACTERISTICS NO NACELLES



0A62 B26C9 F8 W116E26V8R5X9 (DDW002)

SYMBOL  $\bigcirc$  MACH .200

PARAMETRIC VALUES

ALPHA	BDFLAP	DATASET	RUDDER	DATA SOURCE
ELEVON	.000	-12.000	.000	DDW002
SPOBRK	.000	.000	-15.000	DDW014
	.000	1000.000		DDW014

REFERENCE INFORMATION

SREF	LREF	BREF	XPRP	YPRP	ZPRP	SCALE
4.1119	15.2299	37.9359	43.5974	.0000	15.1875	.0405
SO.FT.	INCHES	INCHES	INCHES	INCHES	INCHES	SCALE

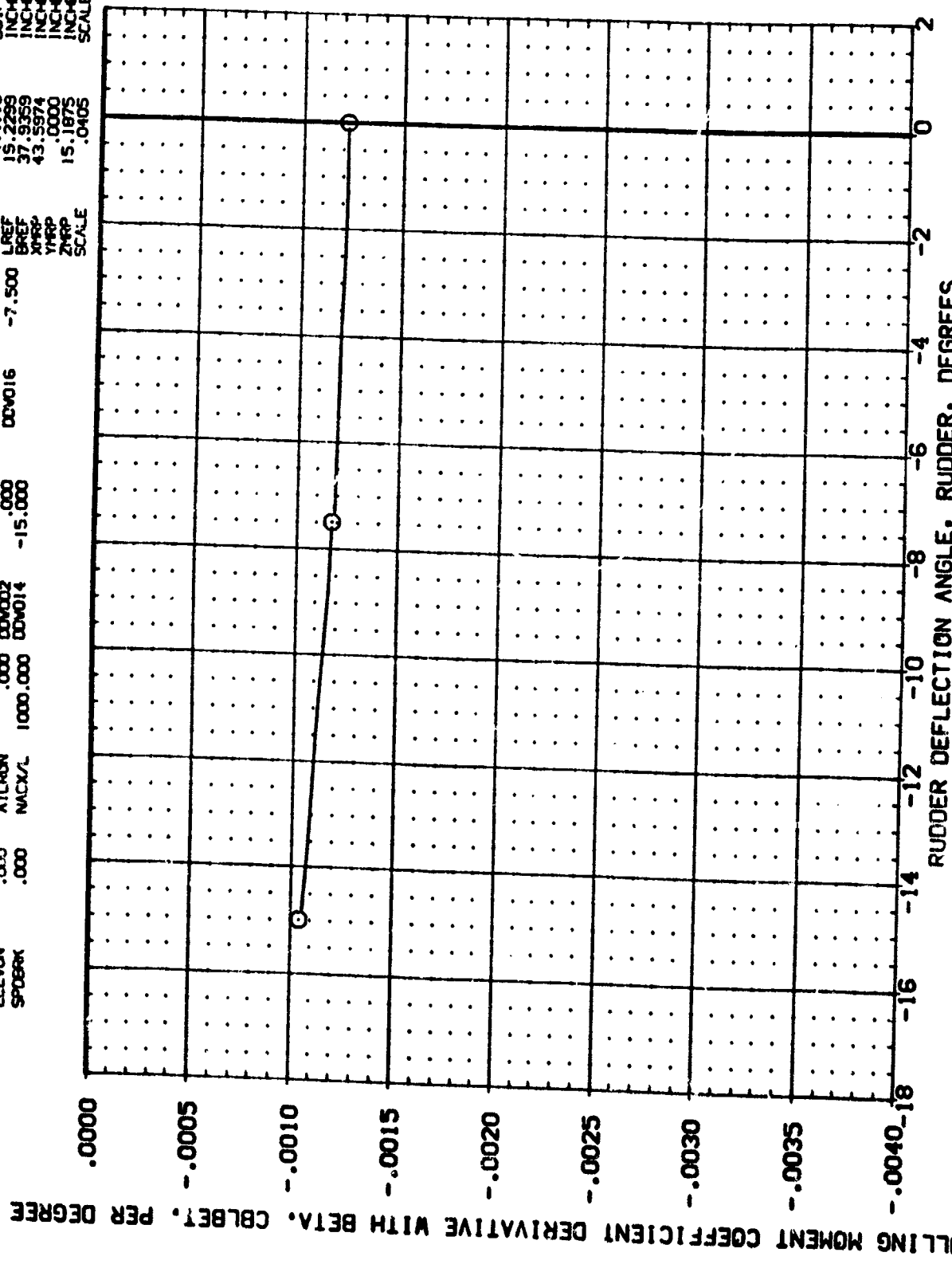


FIG 7 LATERAL - DIRECTIONAL RUDDER CHARACTERISTICS NO NACELLES

(DDW002)

W116E26V8R5X9

F8

B26C9

0A62

SYMBOL

MACH

ALPHA  
ELEVON  
SPDRK

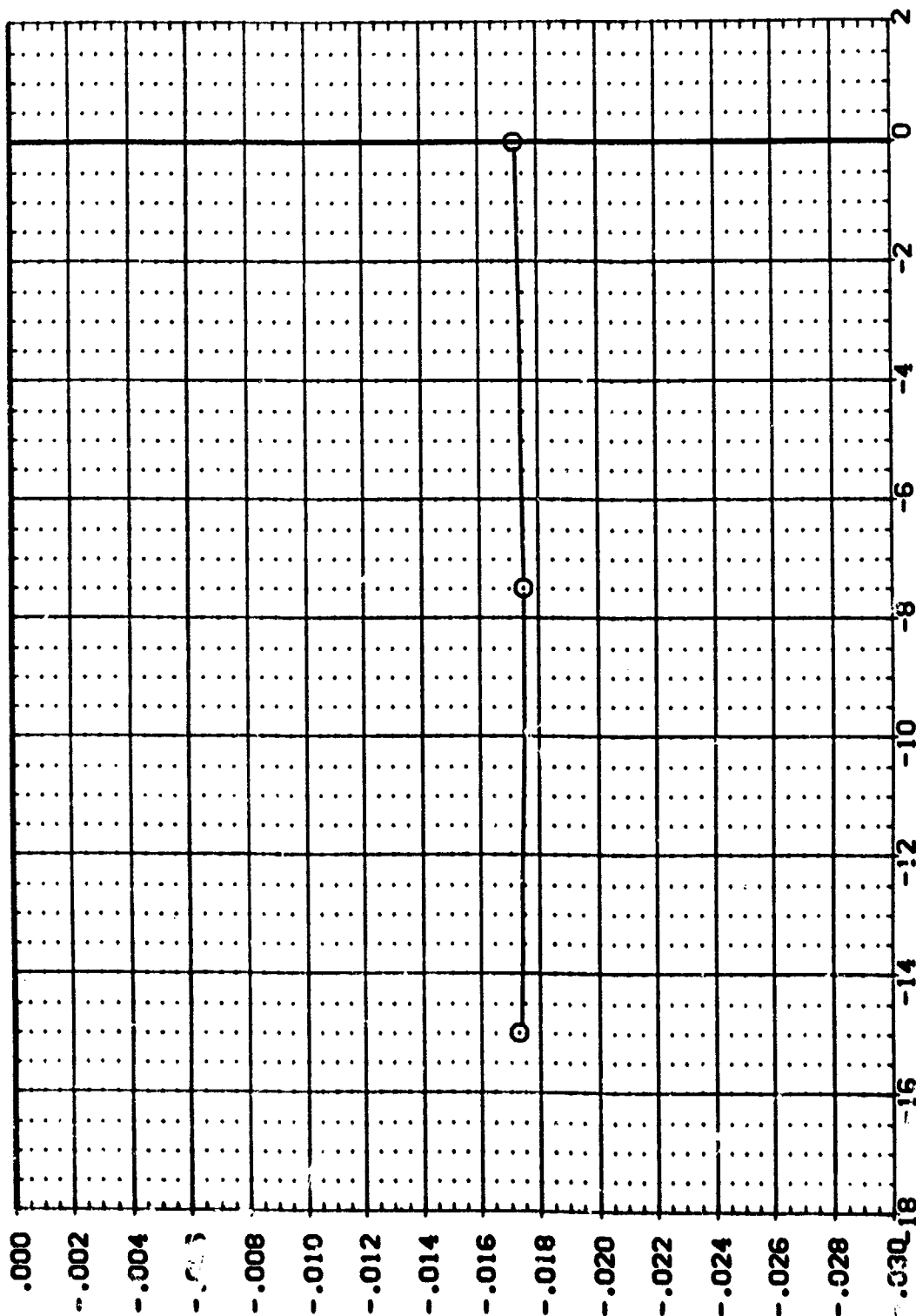
PARAMETRIC VALUES  
.000 BOFLAP  
.000 AILRON  
.000 NACK/L

DATA SOURCE  
RUDDER  
-15.000  
-12.000 DATASET  
.000 DDW002  
1000.000 DDW014

RUDDER  
-7.500  
DATASET  
DDW016

REFERENCE INFORMATION  
SREF 4.4119 50.FT.  
LREF 19.2299 INCHES  
BREF 37.9359 INCHES  
XPRP 43.5974 INCHES  
YPRP .0000 INCHES  
ZPRP 15.1875 INCHES  
SCALE .0405

SIDE FORCE COEFFICIENT DERIVATIVE WITH BETA, CYBETA, PER DEGREE



RUDDER DEFLECTION ANGLE, RUDDER, DEGREES

FIG 7 LATERAL - DIRECTIONAL RUDDER CHARACTERISTICS NO NACELLES

DATA SET SYMBOL    CONFIGURATION DESCRIPTION  
 (ADM056)    0462    826CS    FBJS0V116Z26V85X10  
 (ADM059)    0462    826CS    FBJS4V116Z26V85X10

NAC/L    ELEVON    BYFLAP    SPOBRK  
 .240    .000    -12.000    .000  
 .240    .000    -12.000    .000

REFERENCE INFORMATION  
 SREF    4.4119    SO.FT.  
 LREF    19.2299    INCHES  
 BRFP    37.9359    INCHES  
 XMRP    43.5974    INCHES  
 YMRP    .0000    INCHES  
 ZMRP    15.1875    INCHES  
 SCALE    .0405    SCALE

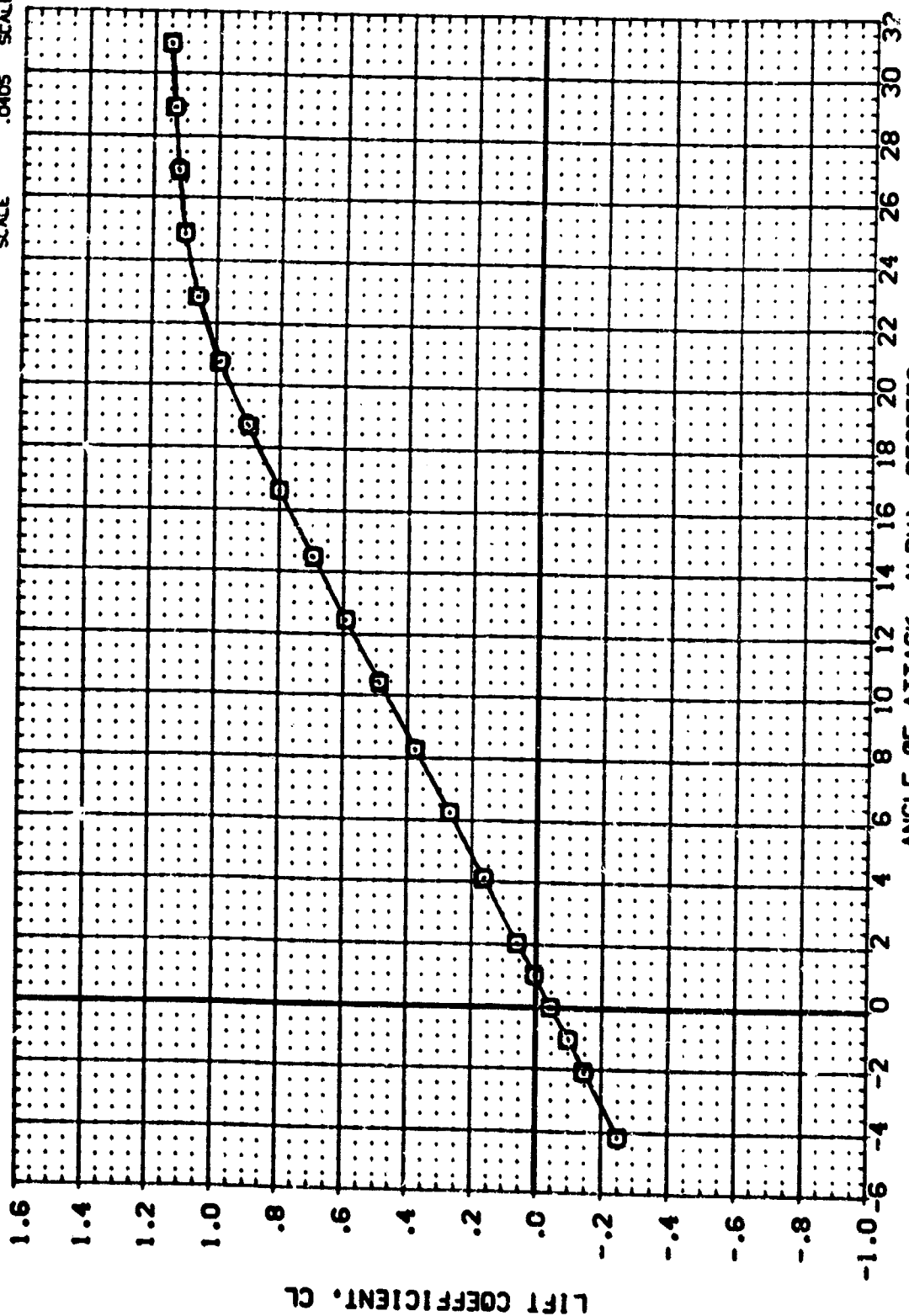


FIG 8 LONGITUDINAL CHARACTERISTICS 5 SINGLE NACELLE UNDERWING SUPPORT STRUT  
 (A)MACH = .20

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (ADVOCSS) 0462 B26C9 FBJ/SOW/16E26V85X10  
 (ADVOCSS) 0462 B26C9 FBJ/SW/16E26V85X10

NACAL ELEVON BDFLAP SPOBRK  
 .240 .000 -12.000 .000  
 .240 .000 -12.000 .000

REFERENCE INFORMATION  
 SREF 4.4119  
 LREF 19.2299  
 BREF 37.9359  
 XREF 43.5974  
 YREF .0000  
 ZREF 15.1875  
 SCALE .0405

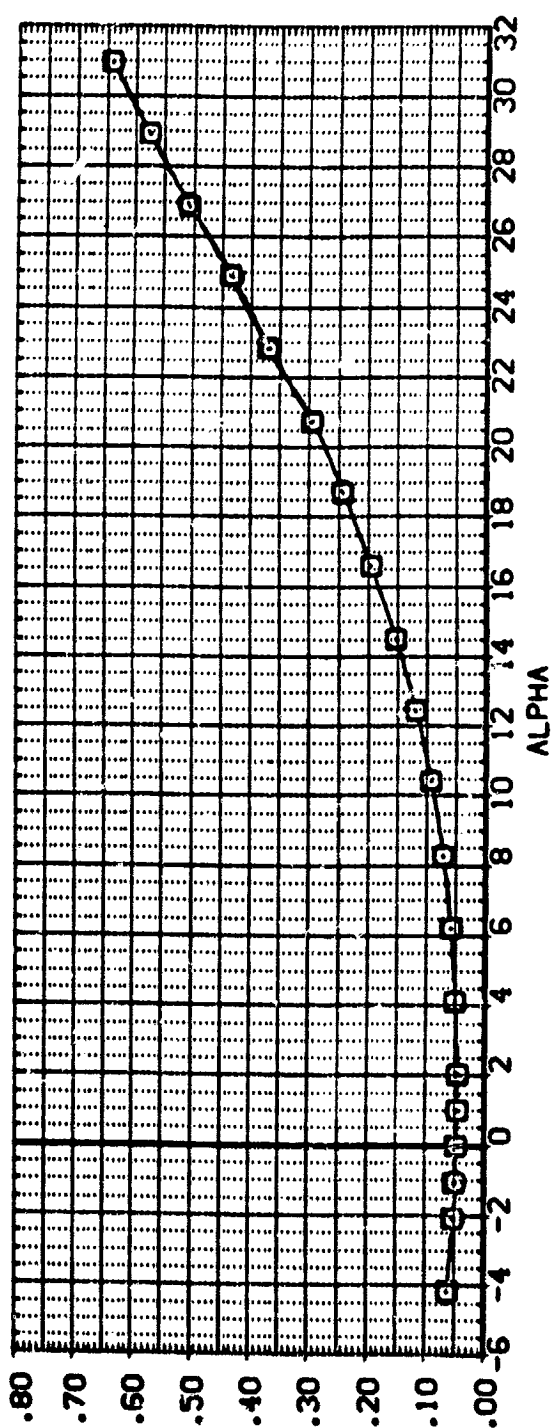
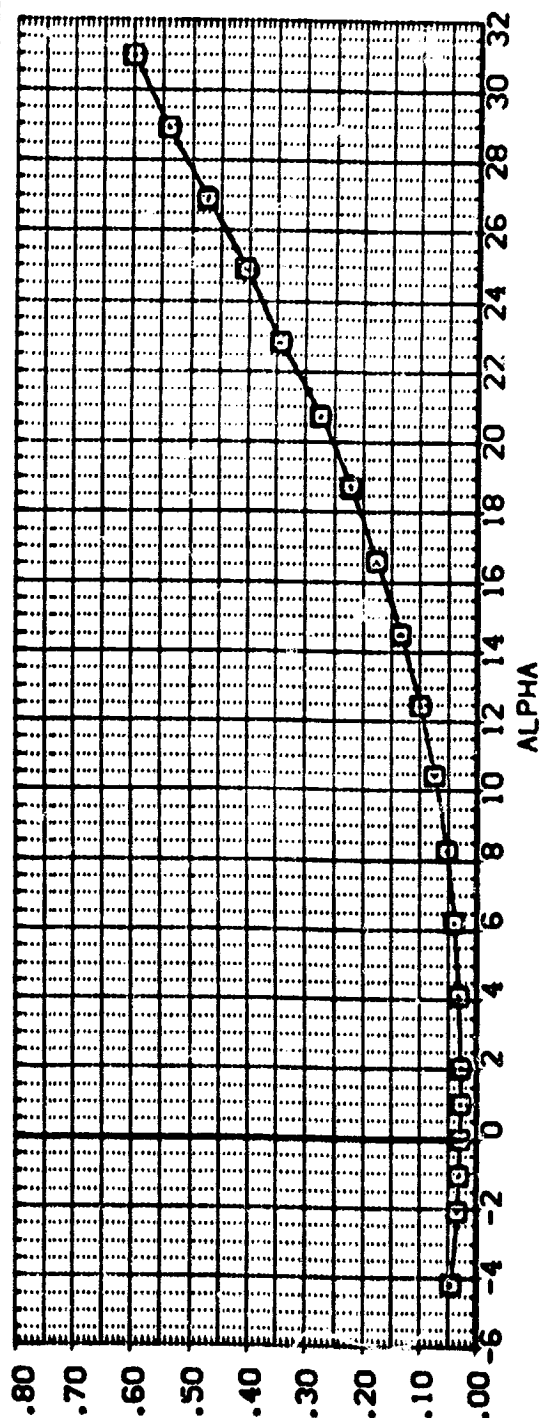


FIG 8 LONGITUDINAL CHARACTERISTICS 5 SINGLE NACELLE UNDERWING SUPPORT STRUT  
 (A)MACH = .20

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (AD055) B25C9 FBJS0W11GE76V85X10  
 (AC059) B25C9 FBJS4V11GE26V85X10

NACAL ELEVON BOFLAP SPOBRK  
 .240 .000 -12.000 .000  
 .240 .000 -12.000 .000

REFERENCE INFORMATION  
 SREF 4.4119 50.FT  
 LREF 19.3259 INCHES  
 BREF 37.9359 INCHES  
 XMRP 43.9974 INCHES  
 YMRP .0000 INCHES  
 ZMRP 15.1875 INCHES  
 SCALE .0405

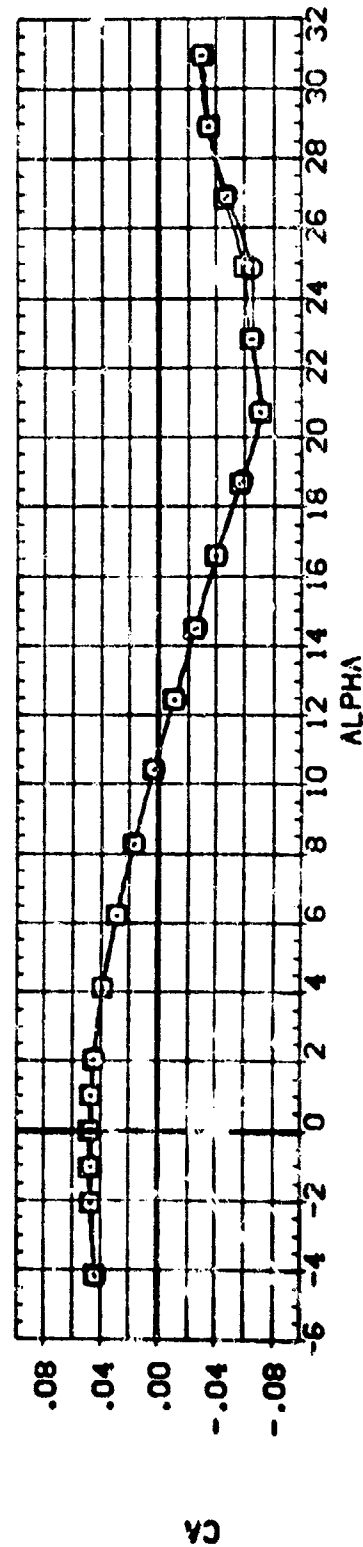
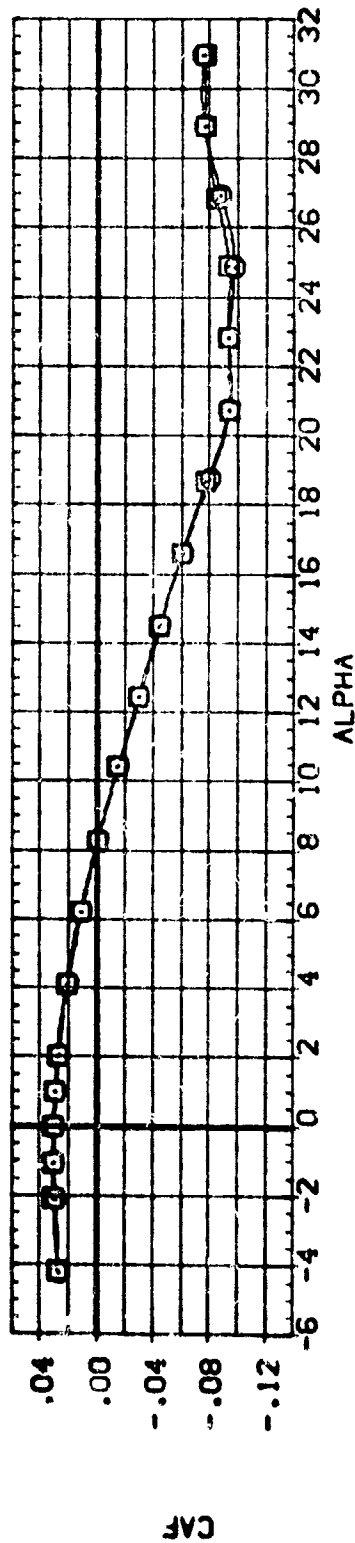
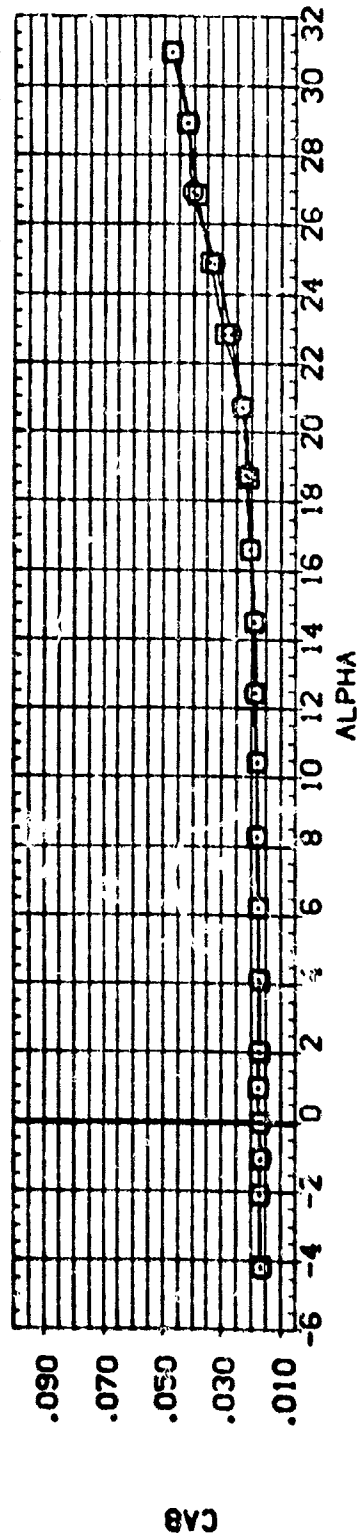


FIG 8 LONGITUDINAL CHARACTERISTICS 5 SINGLE NACELLE UNDERWING SUPPORT STRUT

(AD) CH = .20

DATA SET SYMBOL (ADW056)  (ADW059) CONFIGURATION DESCRIPTION FBJS0V116E26V85X10 FBJS4V116E26V85X10

NACK/L ELEVON BDF/LAP SPOBRK  
.240 .000 -12.000 .000

REFERENCE INFORMATION  
SREF 4.4119 50. FT.  
LREF 19.2299 INCHES  
BREF 37.9359 INCHES  
XMRP 43.5974 INCHES  
YMRP .0000 INCHES  
ZMRP 15.1875 INCHES  
SCALE .0405

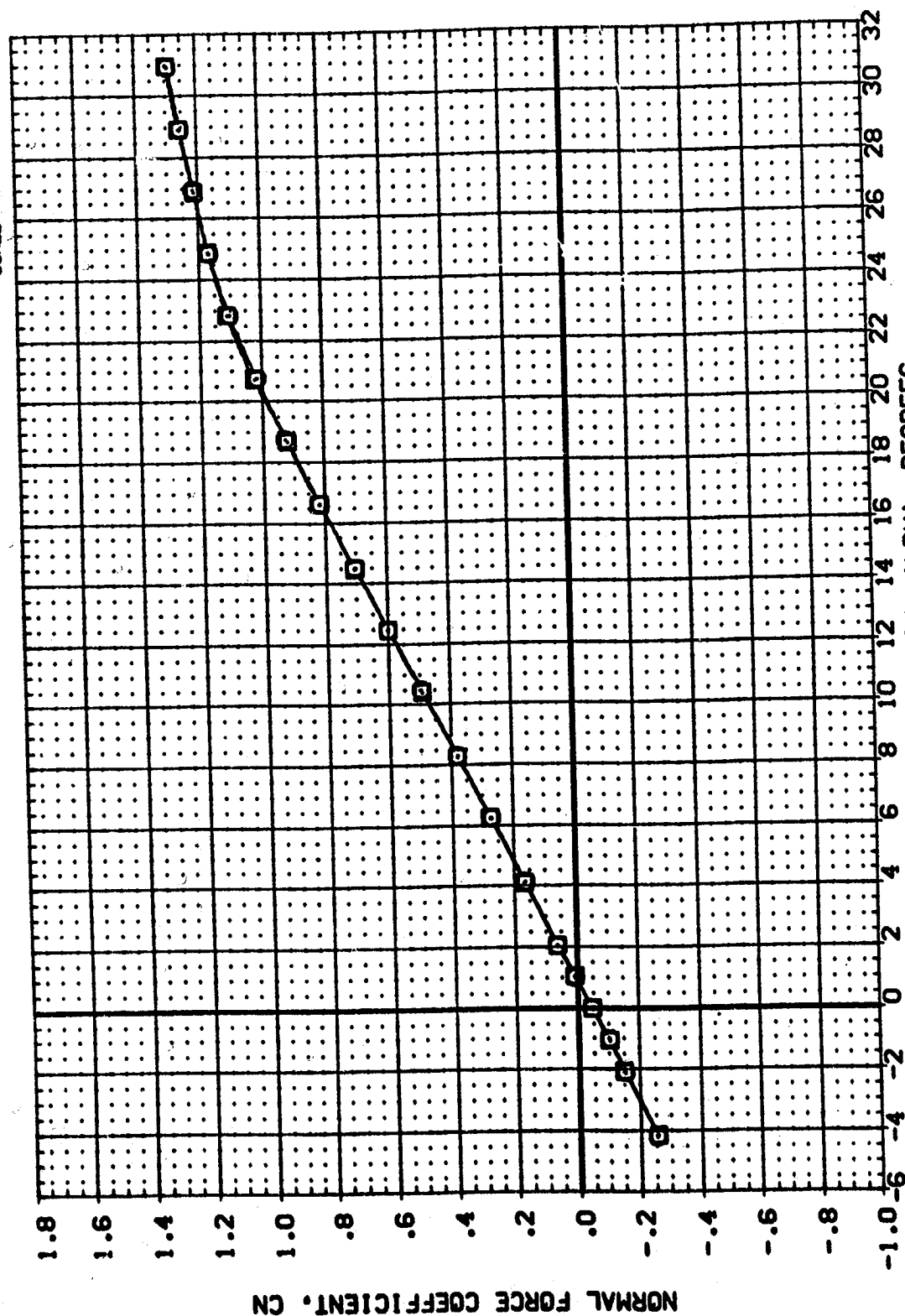


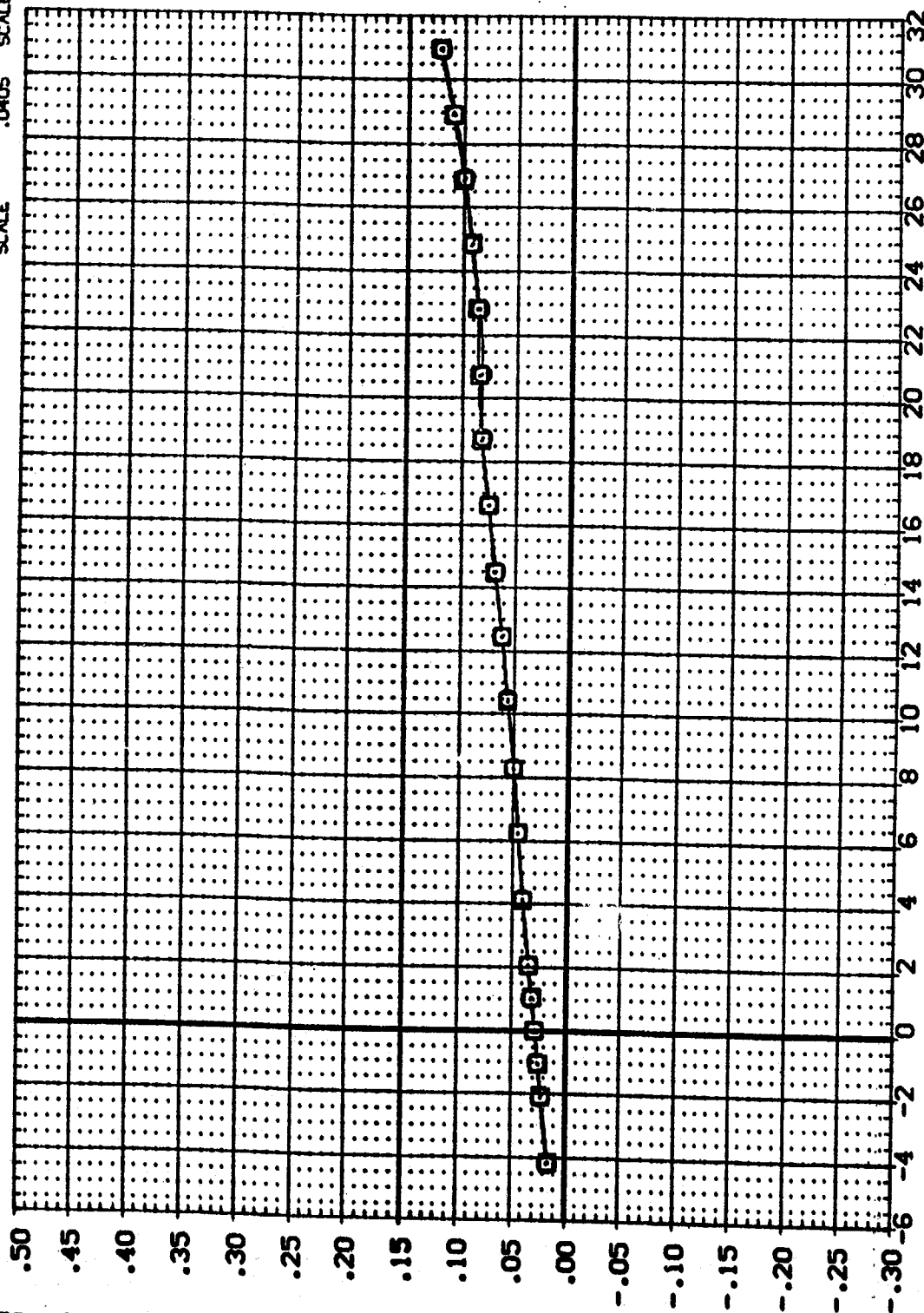
FIG 8 LONGITUDINAL CHARACTERISTICS 5 SINGLE NACELLE UNDERWING SUPPORT STRUT  
(MACH = .20) PAGE 38

DATA SET SYMBOL: (ADW55)  (ADW55)  CONF: 0A62 826C9 0A62 826C9 DESCRIPTION: FBJSOW/16E26V8RSX10 FBJSOW/16E26V8RSX10

NACA/L: .240 ELEVON: .000 .000 BOFLAP: -12.000 -12.000 SPOBRK: .000 .000

REFERENCE INFORMATION:  
SREF: 4.4119 SO.FT.  
LREF: 19.2289 INCHES  
BREF: 37.5359 INCHES  
XTRP: 43.5574 INCHES  
YTRP: .0000 INCHES  
ZTRP: 15.1875 INCHES  
SCALE: .0405

PITCHING MOMENT COEFFICIENT ABOUT FWD CG LIMIT (.65 LB). CLMFW



ANGLE OF ATTACK, ALPHA, DEGREES

FIG 8 LONGITUDINAL CHARACTERISTICS 5 SINGLE NACELLE UNDERWING SUPPORT STRIT

(M)MACH = .20

DATA SET SYMBOL: (ADV056) (ADV059)

CONFIGURATION DESCRIPTION: 0A62 826C9 F8J50V11GE26V8SX10 0A62 826C9 F8J54V11GE26V8SX10

NACVAL: .240 .240

ELEVON: .000 .000

BOFLAP: -12.000 -12.000

SPDBRK: .000 .000

REFERENCE INFORMATION:

SREF: 4.4119 SQ.FT.

LREF: 19.2259 INCHES

BREF: 37.9359 INCHES

XMRP: 43.5974 INCHES

YMRP: .0000 INCHES

ZMRP: 15.1875 INCHES

SCALE: .0405

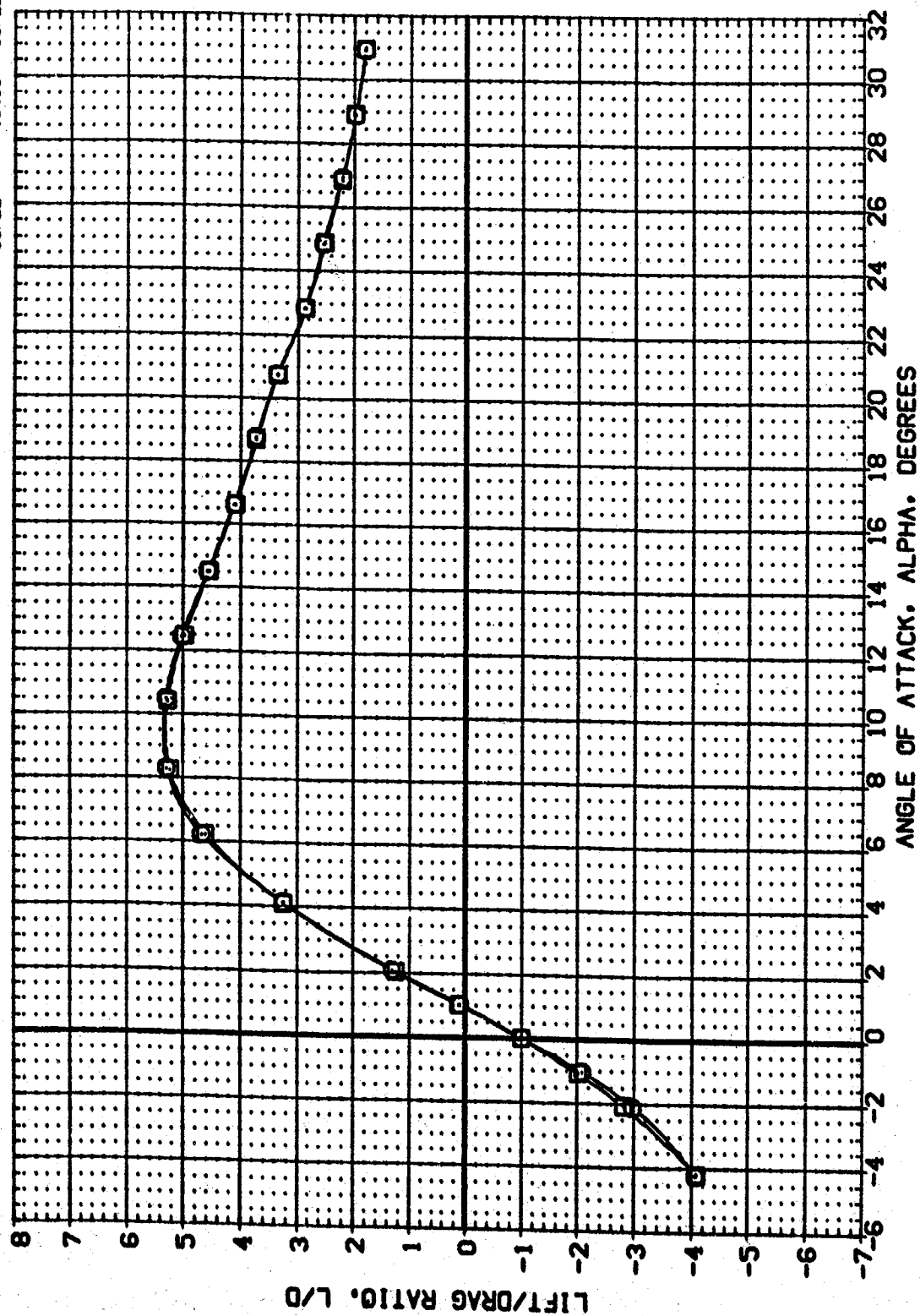


FIG 8 LONGITUDINAL CHARACTERISTICS 5 SINGLE NACELLE UNDERWING SUPPORT STRUT

(A)MACH = .20



DATA SET SYMBOL (A0055) (A0059) CONFIGURATION DESCRIPTION FB SWI116Z6V8X10 FB SWI116Z6V8X10 FB SWI116Z6V8X10

NACX/L .240 .240 ELEVON .000 .000 .000 SPOBRK .000 .000 .000

REFERENCE INFORMATION SREF 4.4119 SO.FT. 19.2299 LREF 37.9359 INCHES 43.5974 INCHES XMRP 0.000 YMRP 15.1875 INCHES ZMRP 0.0405 INCHES SCALE

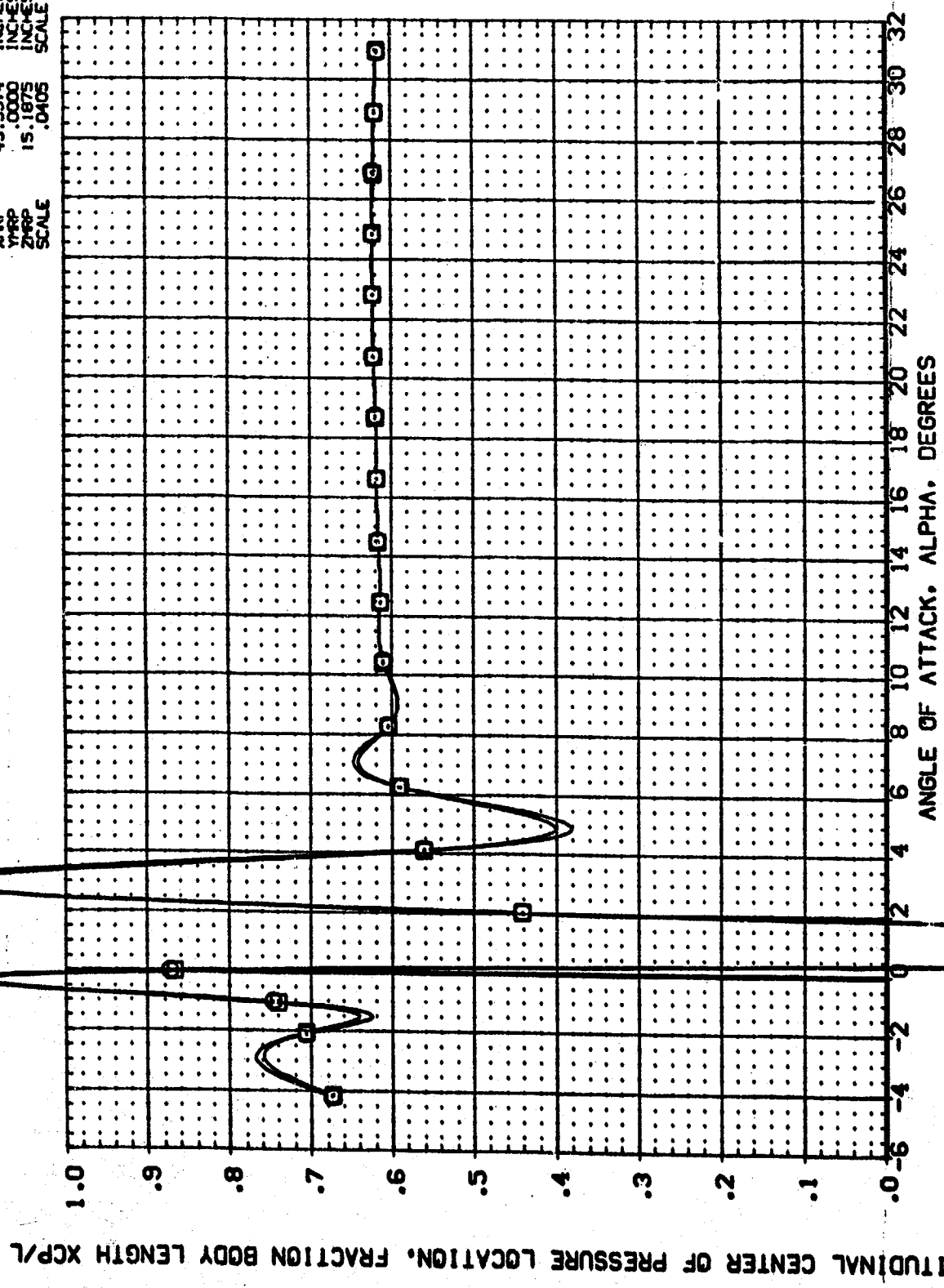


FIG 8 LONGITUDINAL CHARACTERISTICS 5 SINGLE NACELLE UNDERWING SUPPORT STRUT  
(A)MACH = .20

DATA SET SYMBOL: (ADM056)  (ADM059)  
 CONFIGURATION DESCRIPTION: DAGEZ B26C9 FB/50V11GE26V85X10  
 DAGEZ B26C9 FB/54V11GE26V85X10

NACA/ELEVON: .240  
 BOFLAP: .000  
 SPOBRK: .000

REFERENCE INFORMATION:  
 SREF: 4.4119 50 FT.  
 LREF: 19.2289 INCHES  
 BREF: 37.9359 INCHES  
 XMRP: 43.5974 INCHES  
 YMRP: .0000 INCHES  
 ZMRP: 15.1875 INCHES  
 SCALE: .0405

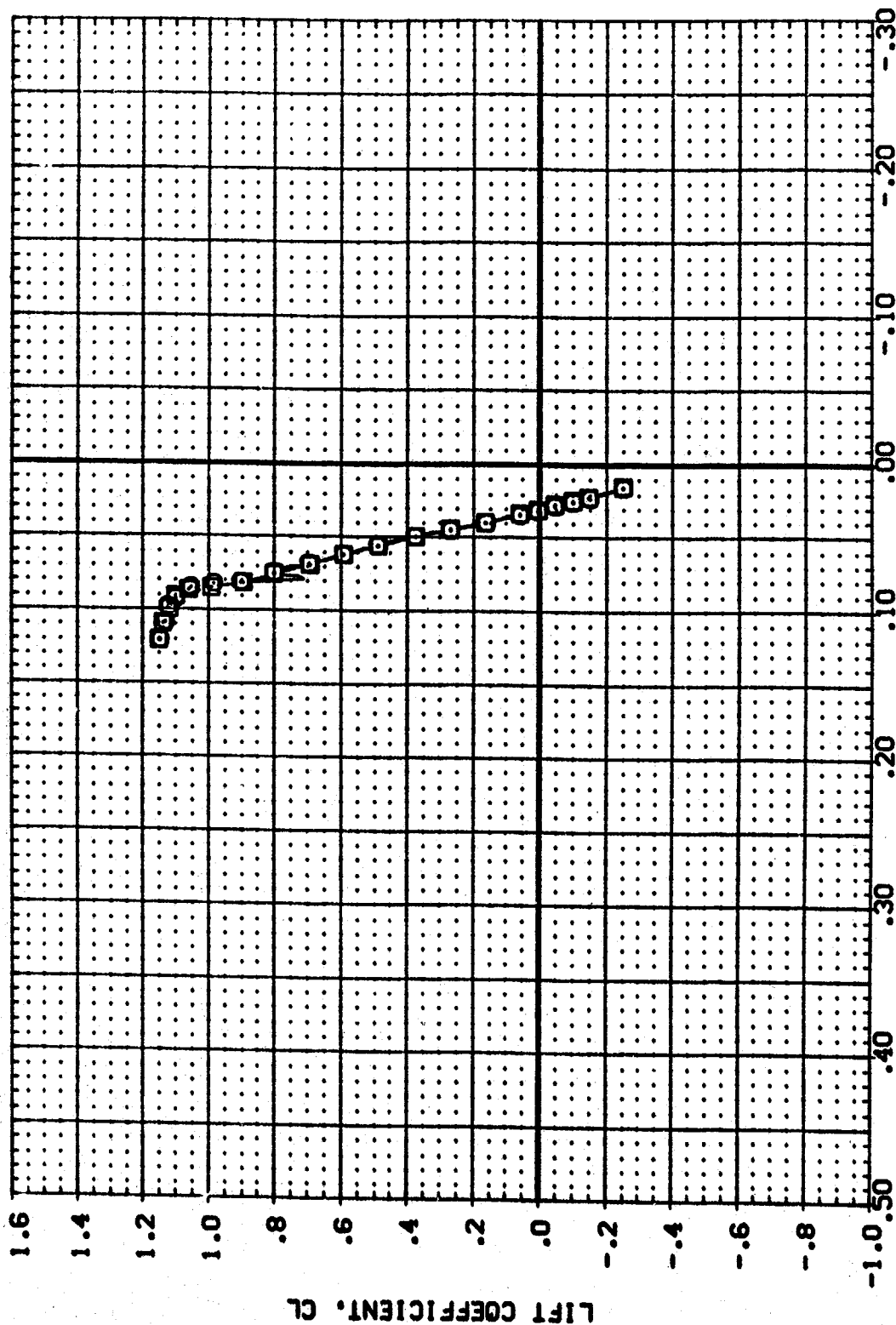


FIG 8 LONGITUDINAL CHARACTERISTICS 5 SINGLE NACELLE UNDERWING SUPPORT STRUT  
 PITCHING MOMENT COEFFICIENT ABOUT FWD CG LIMIT (.65 LB). CLMFWD

(A)MACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NAC/L	ELEVON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(AD055)	QAG2 B26C9	.240	.000	-12.000	.000	SREF 4.4119 SO.FT.
(AD059)	QAG2 B26C9	.240	.000	-12.000	.000	LREF 19.2299 INCHES
						BREF 37.9359 INCHES
						XMRP 43.5974 INCHES
						YMRP .0000 INCHES
						ZMRP 15.1875 INCHES
						SCALE .0405

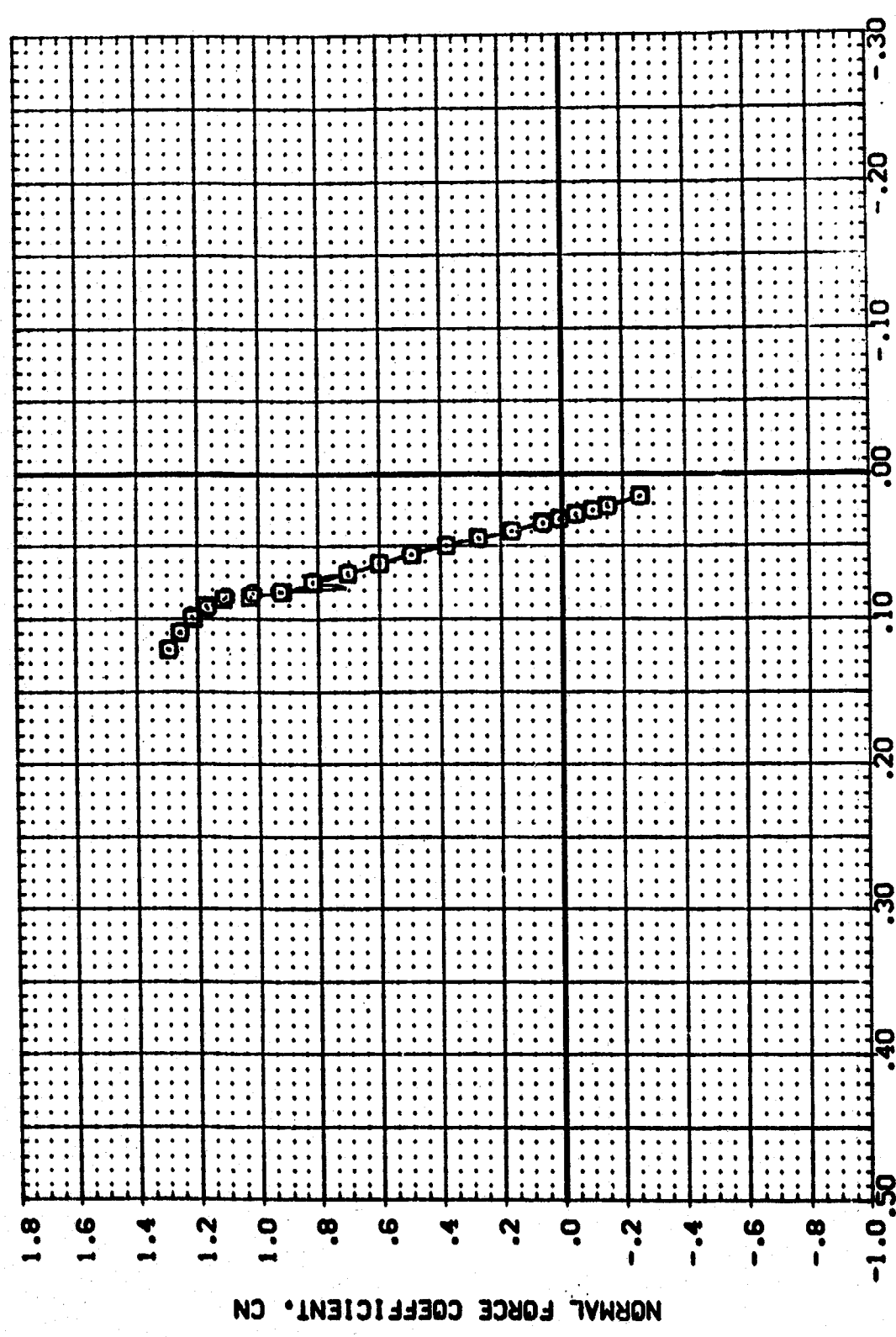
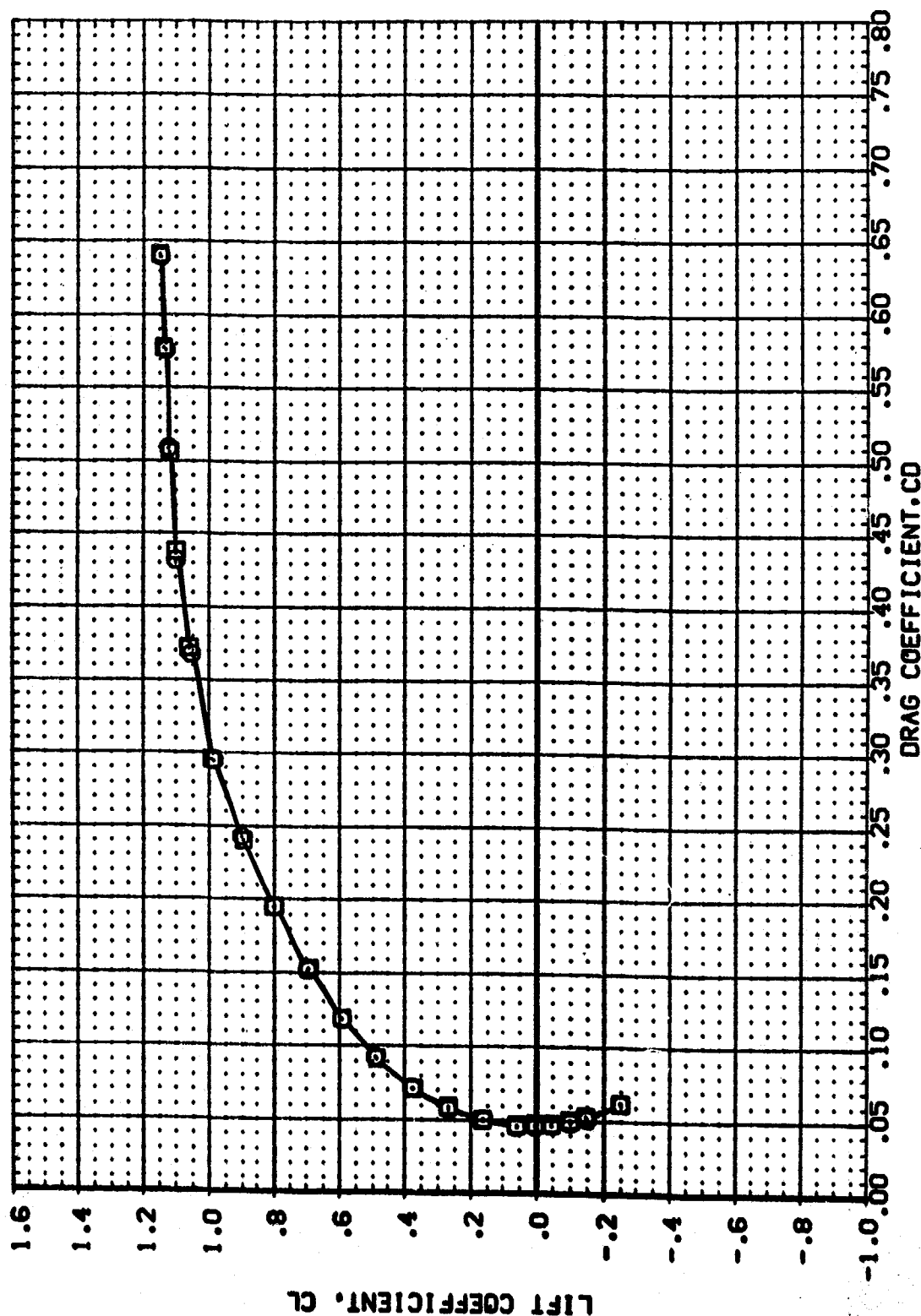


FIG 8 LONGITUDINAL CHARACTERISTICS 5 SINGLE NACELLE UNDERWING SUPPORT STRUT  
 (A)MACH = .20  
 PITCHING MOMENT COEFFICIENT ABOUT FWD CG LIMIT (.65 LB). CLMFWD

[illegible]

INACK/L	ELEVON	BOFLAP	SPDRX	REF
.240	.000	-12.000	.000	SREF
.240	.000	-12.000	.000	LREF

REFERENCE INFORMATION	
SREF	4.4119 SO.FT.
LREF	19.2399 INCHES
BREF	37.3559 INCHES
XMRP	43.5974 INCHES
YMRP	.0000 INCHES
ZMRP	15.1875 INCHES
SCALE	.0405 SCALE



**FIG 8 LONGITUDINAL CHARACTERISTICS 5 SINGLE NACELLE UNDERWING SUPPORT STRUT**

**(A)MACH = .20**

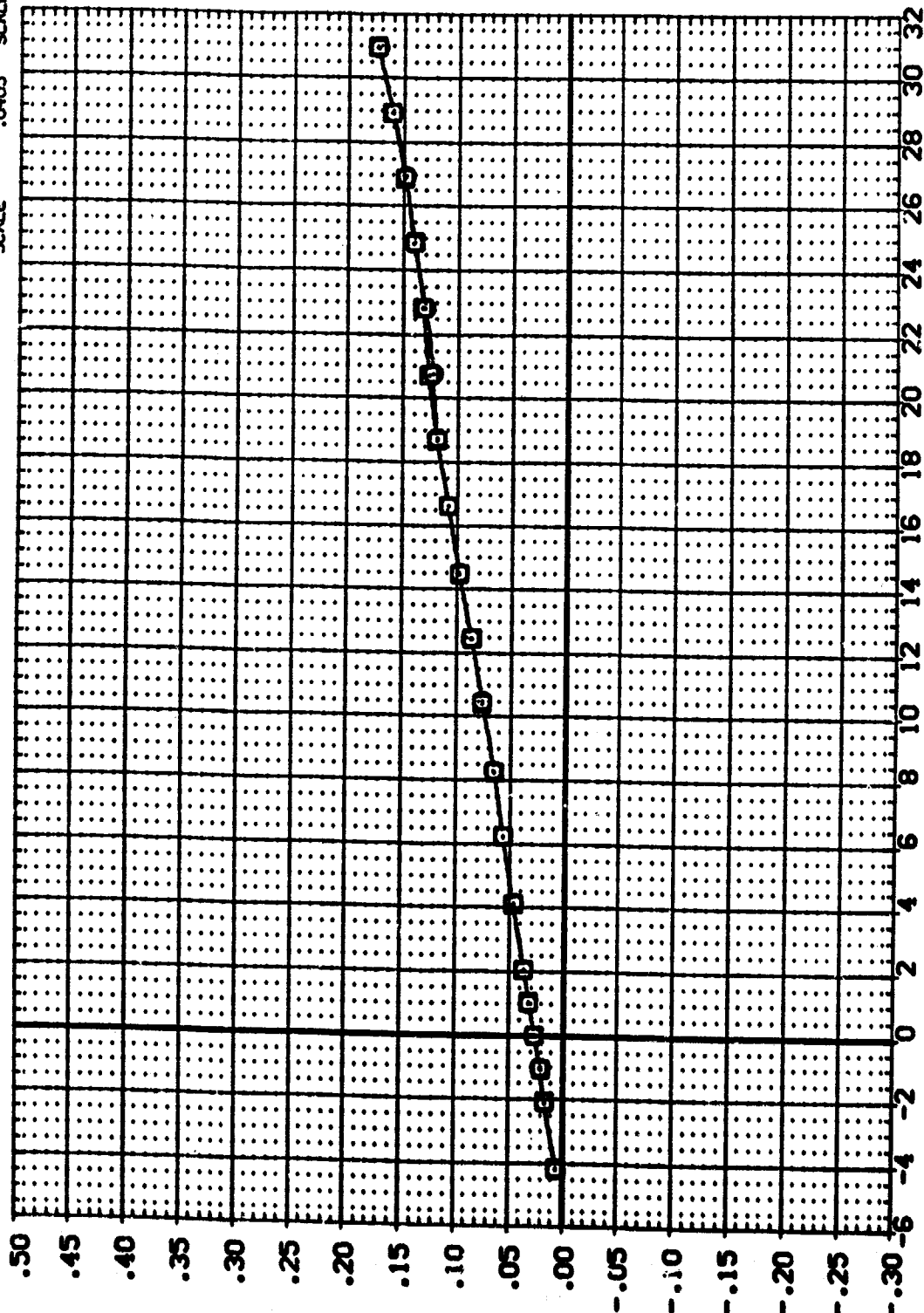
**PAGE 44**

DATA SET SYMBOL    CONFIGURATION DESCRIPTION  
 (CDV056)    QAG2    B26C9    FBJS0V116E26V8RSX10  
 (CDV059)    QAG2    B26C9    FBJS4V116E26V8RSX10

NACX/L    ELEVON    BDFLAP    SPDRK  
 .240    .000    -12.000    .000  
 .240    .000    -12.000    .000

REFERENCE INFORMATION  
 SREF    4.4119    50.FT.  
 LREF    19.2299    INCHES  
 BREF    37.9359    INCHES  
 XMRP    44.3813    INCHES  
 YMRP    .0000    INCHES  
 ZMRP    15.1875    INCHES  
 SCALE    .0405    SCALE

PITCHING MOMENT COEFFICIENT ABOUT AFT CG LIMIT (.675 LB). CLMAFT



ANGLE OF ATTACK, ALPHA, DEGREES

FIG 8 LONGITUDINAL CHARACTERISTICS 5 SINGLE NACELLE UNDERWING SUPPORT STRUCTURE

(M)MACH = .20

DATA SET SYMBOL: (R04057) (R04058)  
 CONFIGURATION DESCRIPTION: 0462 826C3 0462 826C3  
 FBUSOV116E26V8SX10  
 FBUSOV116E26V8SX10

ALPHA: .000 10.000  
 NACA/L: .240 .240  
 SPOBRK: .000 .000  
 RUDDER: .000 .000  
 REFERENCE INFORMATION:  
 SREF: 4.4119 50. FT.  
 LREF: 19.2288 INCHES  
 BREF: 37.9359 INCHES  
 XMRP: 43.5974 INCHES  
 YMRP: .0000 INCHES  
 ZMRP: 15.1875 INCHES  
 SCALE: .0405

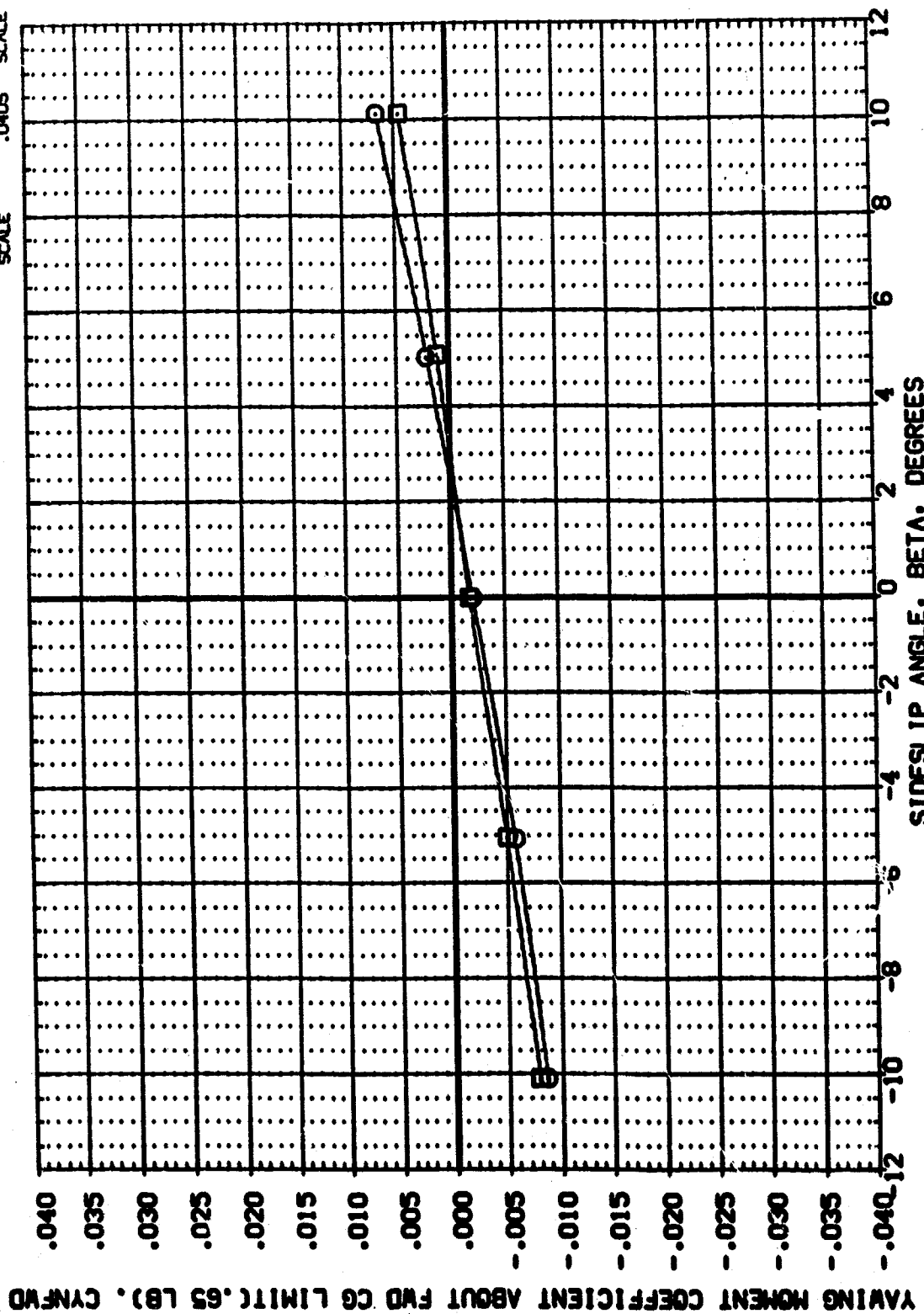
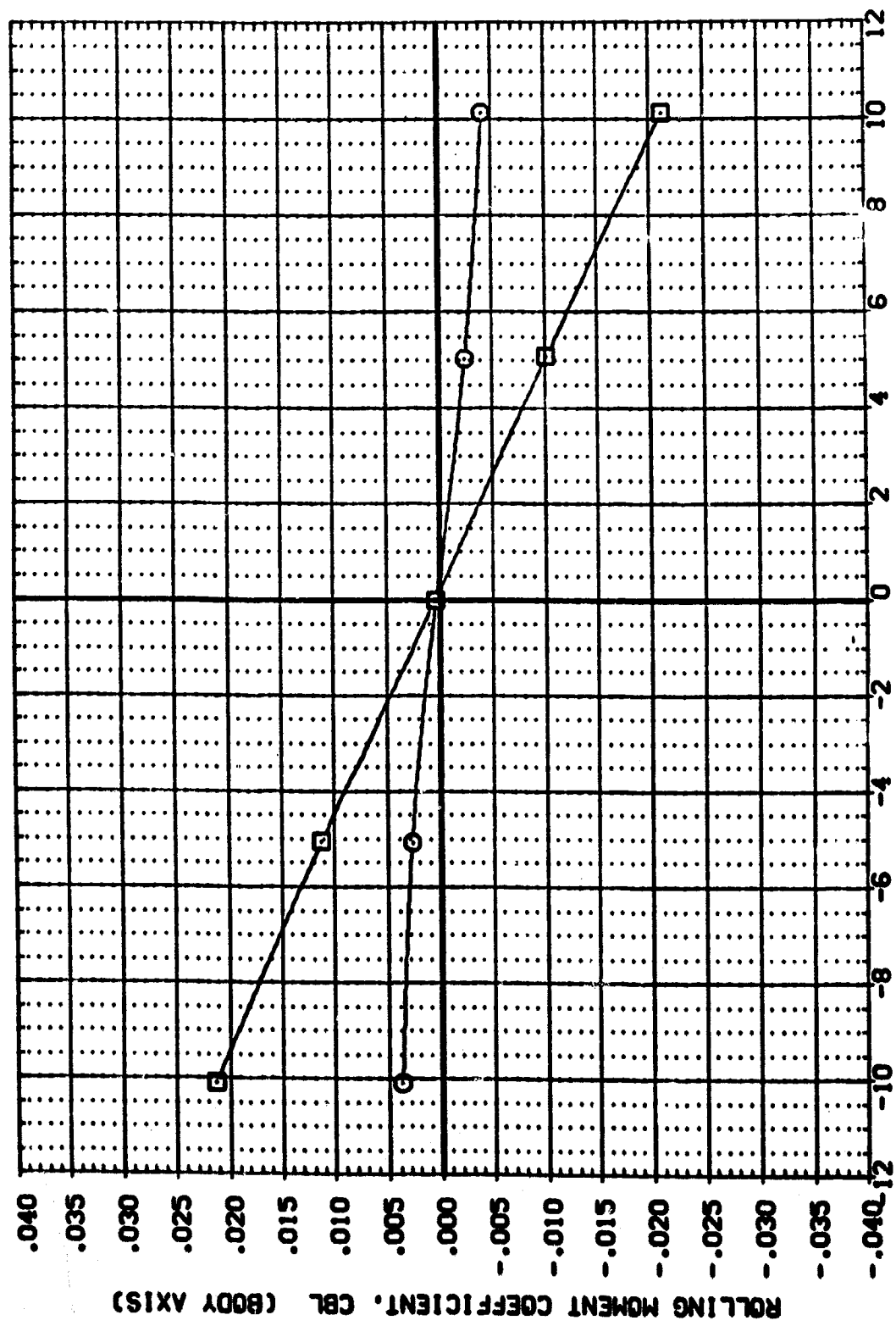


FIG 9 LAT. / DIR. CHARACTERISTICS 5 SINGLE NACELLE UNDERWING SUPPORT STRUT  
 (A)MACH = .20

DATA SET SYMBO. CONFIGURATION DESCRIPTION  
 (R040571) B 0462 B26C9 FBJSOV116E26VBRX10  
 (R04058) B 0462 B26C9 FBJSOV116E26VBRX10

ALPHA MACVL SPOBRK RUDDER  
 .000 .000 .000  
 10.000 .240 .000

REFERENCE INFORMATION  
 SREF 4.4119 SQ.FT.  
 LREF 19.2299 INCHES  
 BREF 37.9359 INCHES  
 XMRP 43.5974 INCHES  
 YMRP .0000 INCHES  
 ZMRP 15.1875 INCHES  
 SCALE .0405



SIDESLIP ANGLE, BETA, DEGREES

FIG 9 LAT. / DIR. CHARACTERISTICS 5 SINGLE NACELLE UNDERWING SUPPORT STRUT

(A)MACH = .20

DATA SET SYMBOL: 0452 826CS  
 (ROM057) 0452 826CS  
 (ROM058) 0452 826CS

CONFIGURATION DESCRIPTION:  
 F6U50V116Z26V8P8X10  
 F6U50V116Z26V8P8X10

ALPHA: .000  
 10.000

NACVAL: .240  
 .240

SPOBRK: .000  
 .000

RUDDER: .000  
 .000

REFERENCE INFORMATION:  
 SREF: 4.4119 SO.FT.  
 LREF: 19.2259 INCHES  
 BREF: 37.9359 INCHES  
 XREF: 42.5574 INCHES  
 YREF: .0000 INCHES  
 ZREF: 15.1875 INCHES  
 SCALE: .0405

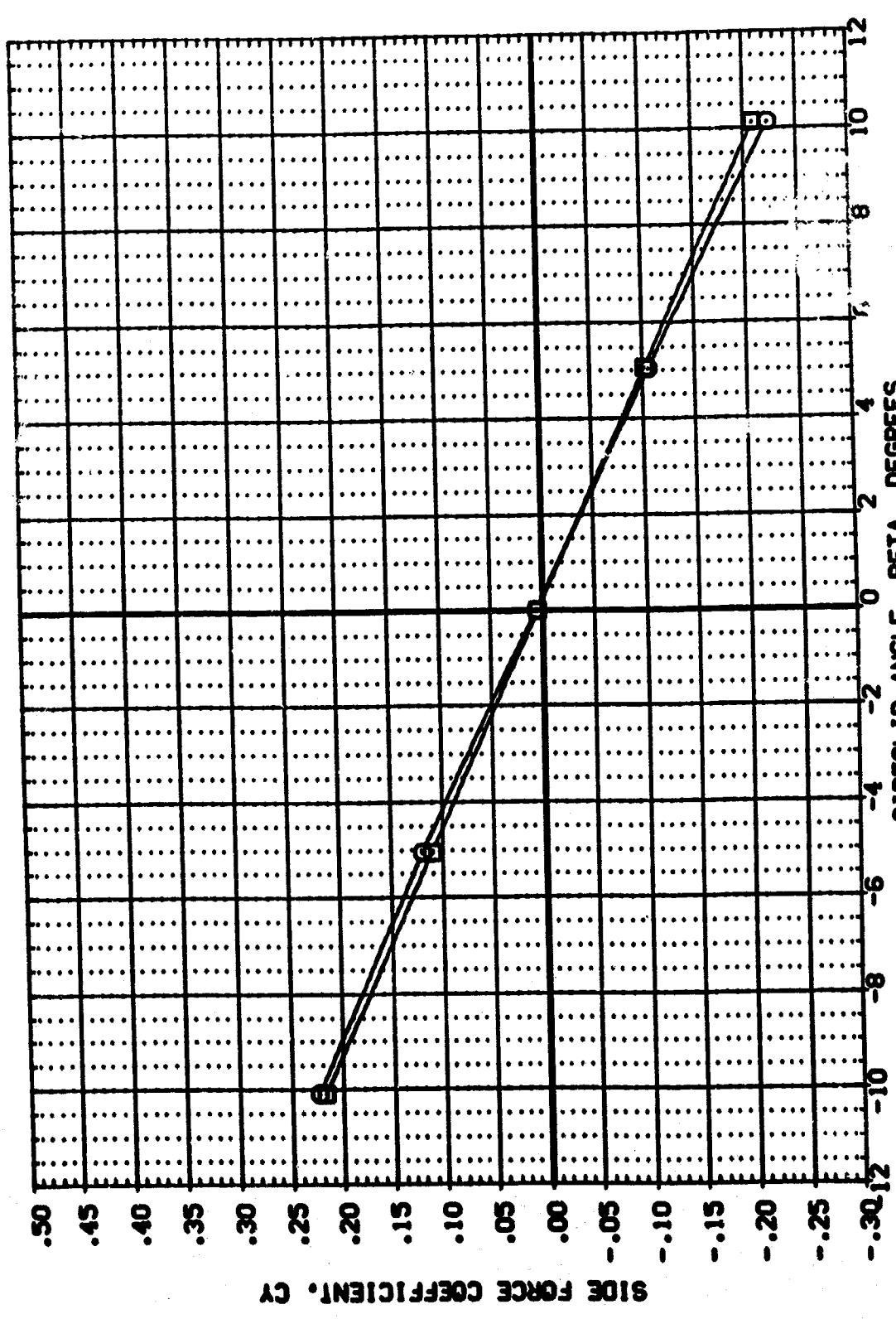


FIG 9 LAT. / DIR. CHARACTERISTICS 5 SINGLE NACELLE UNDERLINE SUPPORT STRUT  
 (A)MACH = .20





0A62 B26C9 F8J50W116E26V8R5X10 (00W057)

SYMBOL	WING	PARAMETRIC VALUES				DATA SOURCE				REFERENCE INFORMATION			
○	.200	SOFLAP	-12.000	ELEVON	.000	DATASET	ALPHA	.000	DATASET	ALPHA	SREF	50.4119	
		AIRLON	.000	RUDDER	.000	00W057	10.000		00W058	10.000	LRP	19.2289	
		SPOBRK	.000	NAC/L	.240						BRP	37.5359	
											VRP	43.5974	
											ZVRP	.0000	
											SCALE	15.1875	
												INCHES	
												SCALE	

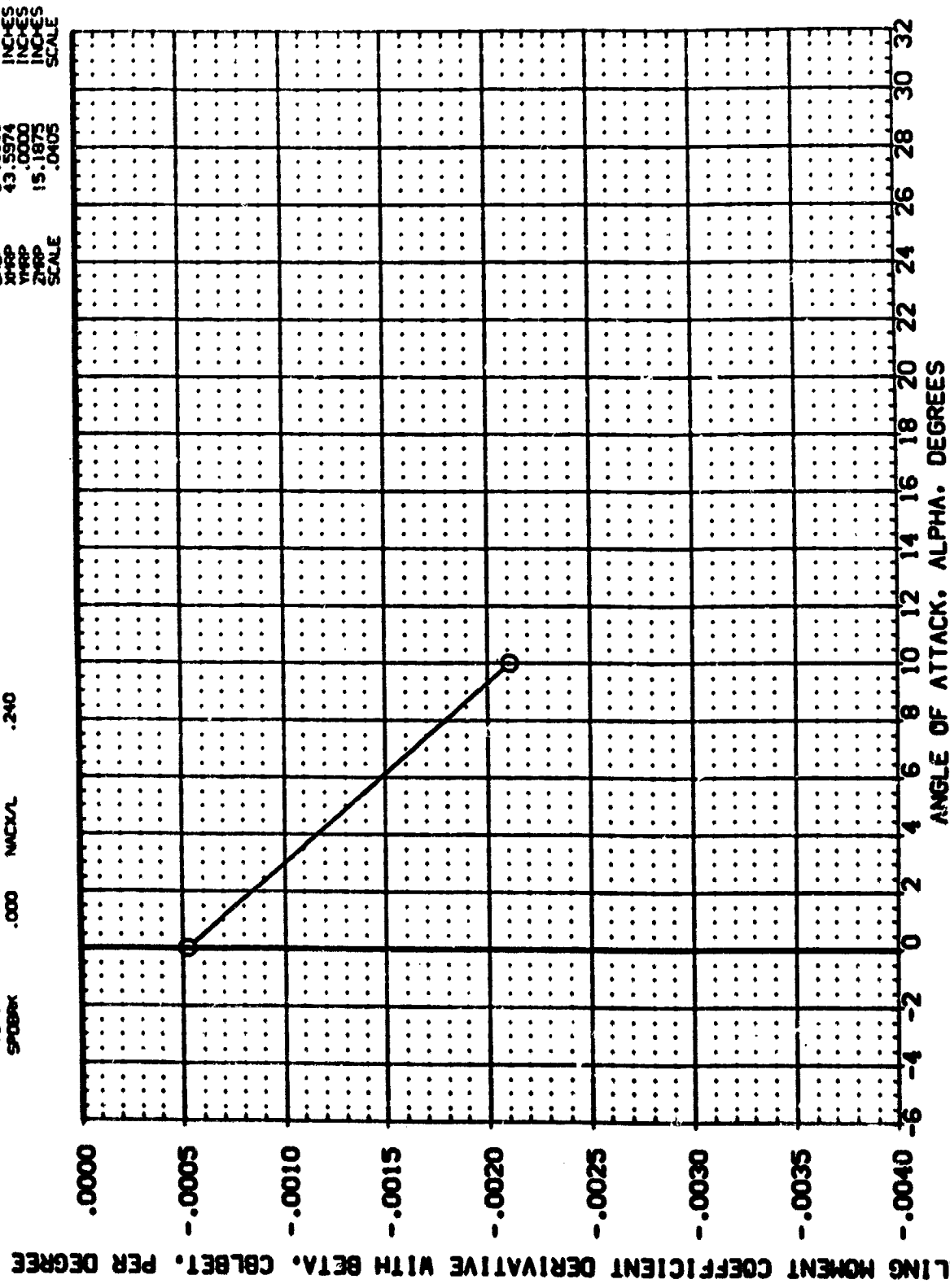


FIG 9 LAT. / DIR. CHARACTERISTICS 5 SINGLE NACELLE UNDERWING SUPPORT STRUT

(DDW057)

**F8J50W116E26V8R5X10**

7AE2 B26C9

REFERENCE INFORMATION	
SREF	4.4119 SO.FT.
LREF	19.2299 INCHES
BREF	37.9359 INCHES
XMRP	43.5974 INCHES
YMRP	0.0000 INCHES
ZMRP	15.1875 INCHES
	.0405 SCALE

SCALE  
ZMRP  
YMRP  
XMRP  
BREF  
LREF  
SREF

ALPHA  
10,000

SOURCE  
 DATASET  
 DDV058

DATA SOURCE  
ALPHA  
.0000

000 DATASET  
000 DDV057  
240

VALUES  
EVON  
DDER  
CXL

PARA METRIC V	ELI	RUI	NA
2.00X			
.000			
.000			

P  
-1  
BOFLAP  
AILRON  
SPOROK

002  
NON

7

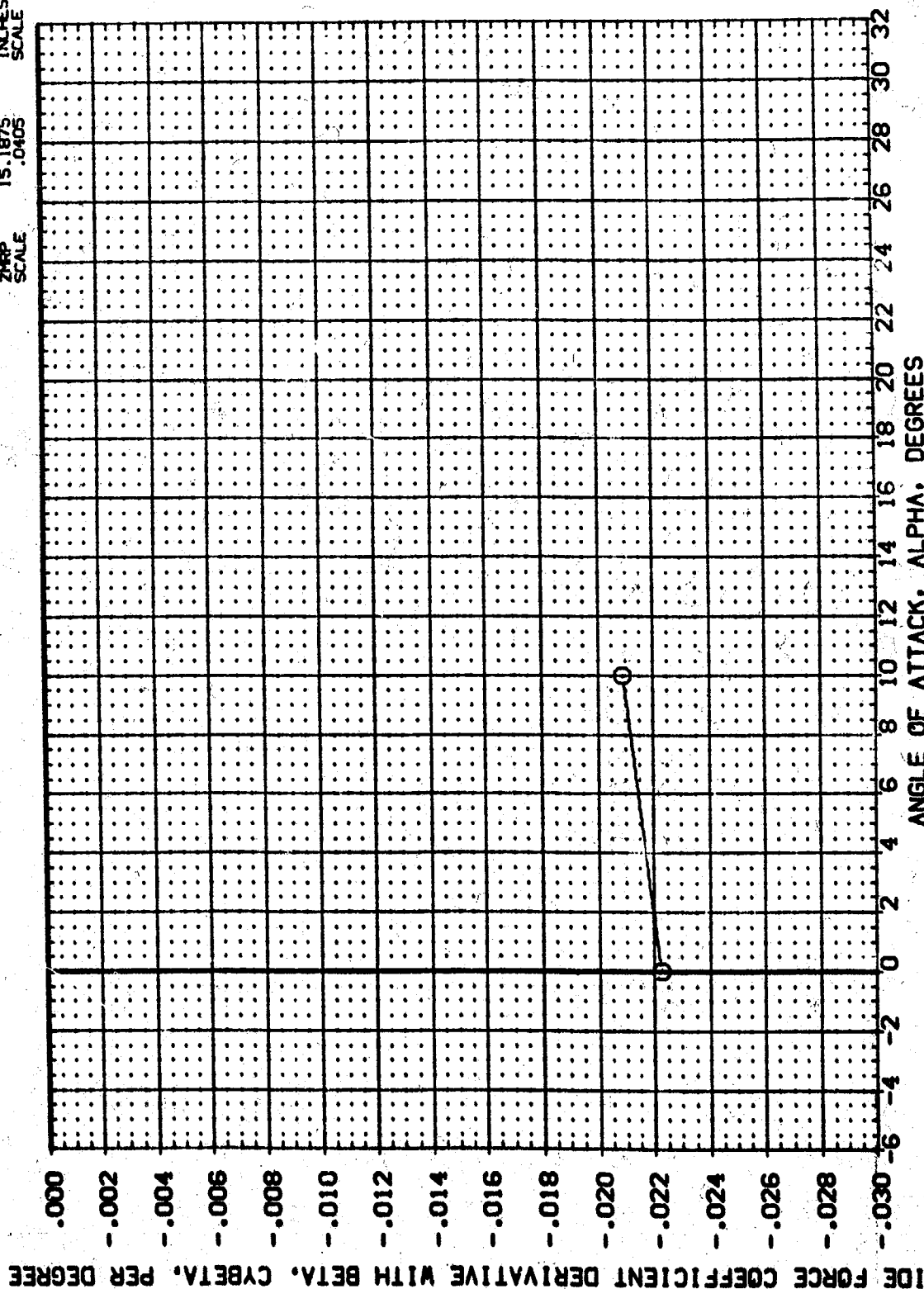


FIG 9 LAT. / DIR. CHARACTERISTICS 5 SINGLE NACELLE UNDERWING SUPPORT STRUT

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		REFERENCE INFORMATION	
(.NOV050)	0A62 826C9	F8J55W11GE76V8R5X10	SREF	4.4119	50. FT.
(.NOV001)	0A62 826C9	F8 J11GE76V8R5X19	LREF	19.2299	INCHES
			BREF	37.9399	INCHES
			XMRP	43.5974	INCHES
			YMRP	.0000	INCHES
			ZMRP	15.1875	INCHES
			SCALE	.0405	SCALE

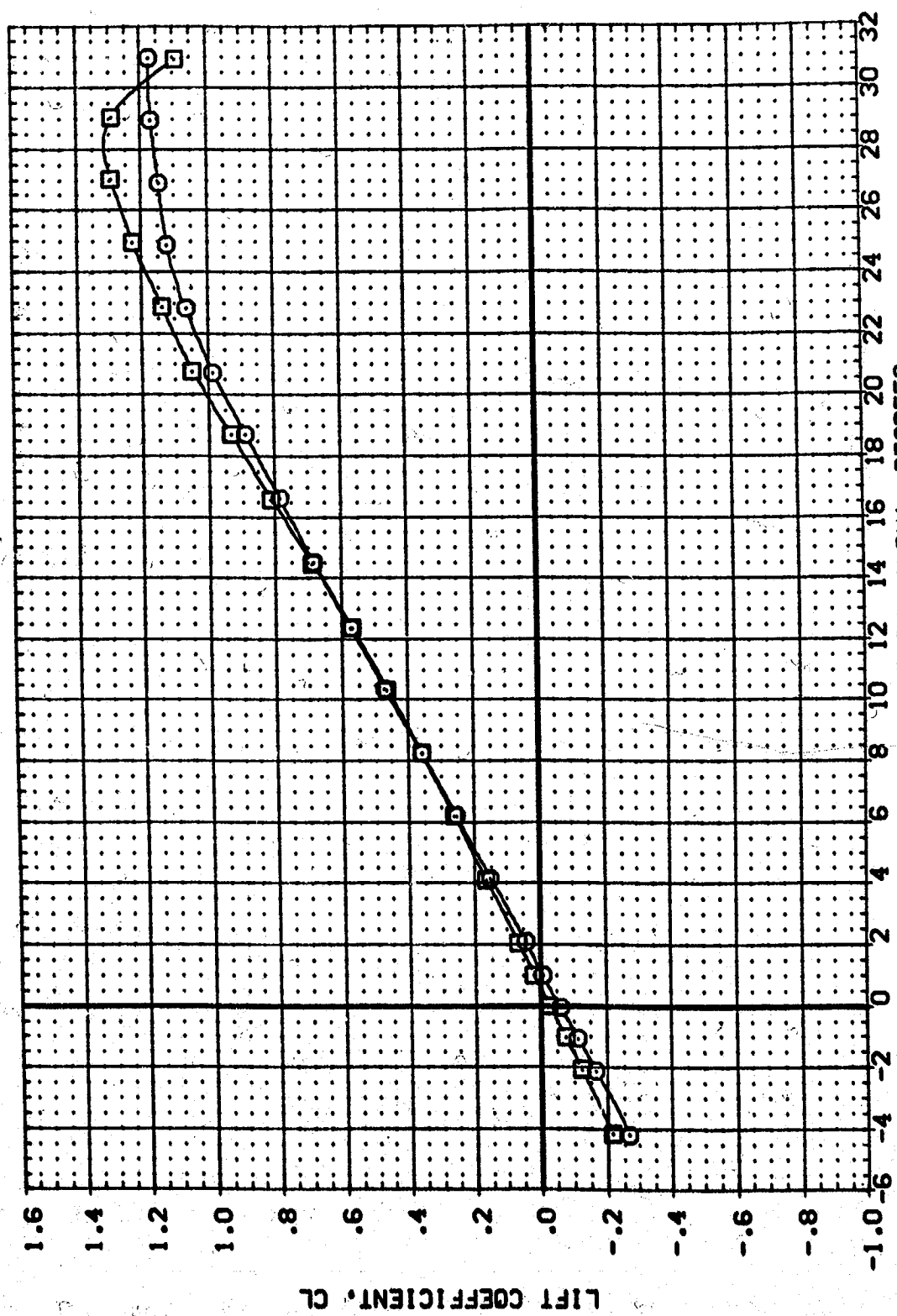


FIG 10 LONGITUDINAL CHARACTERISTICS 5 SINGLE NACELLE UNDERWING FILLED PYLON  
 (A)MACH = .20

DATA SET SYMBOL  
(204050)  
(AD4001)

CONFIGURATION DESCRIPTION  
DAG2 826C9  
DAG2 826C9  
F8 V11626V85X9

NACK/L  
.240

ELEVON  
.000

BD/LAP  
-12.000

SPDRX  
.000

REFERENCE INFORMATION  
SREF 4.4119 SO.FT.  
LREF 19.2299 INCHES  
BREF 37.9359 INCHES  
XTRP 43.5974 INCHES  
YTRP 15.0000 INCHES  
ZTRP 15.1873 INCHES  
SCALE .0405

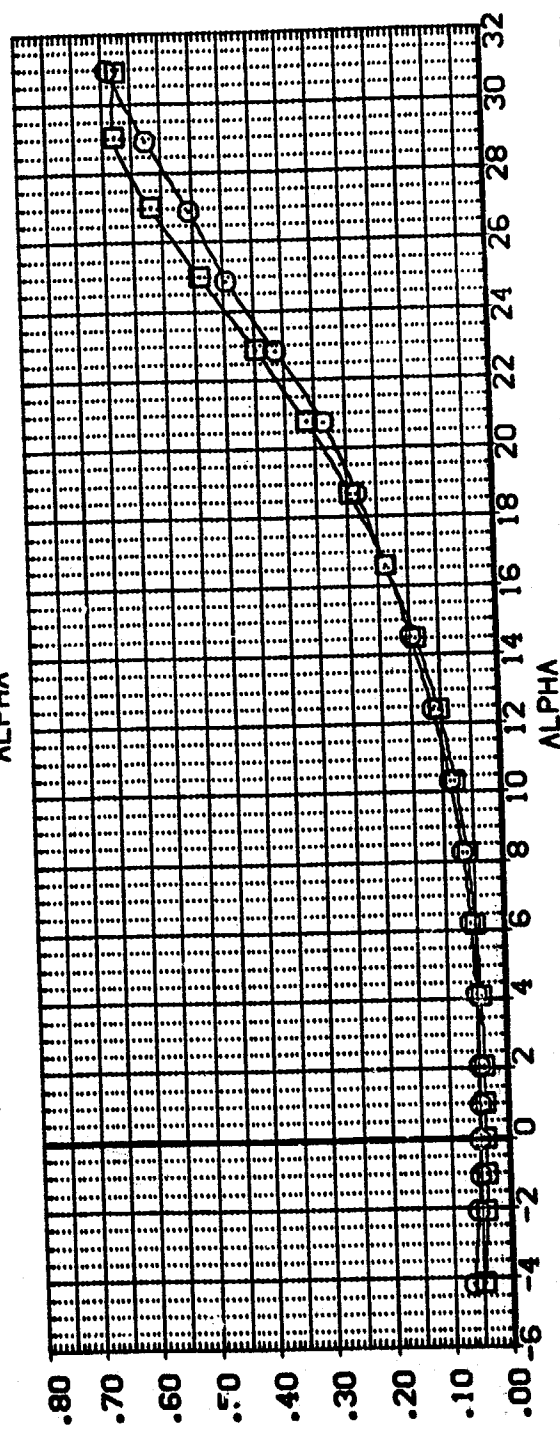
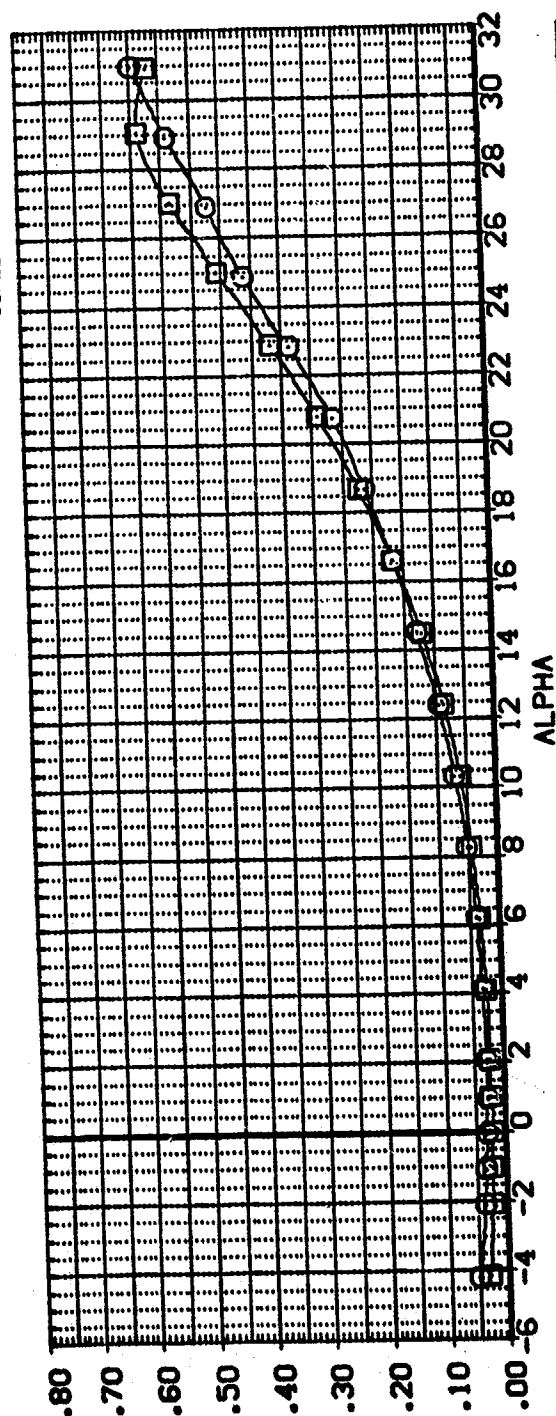


FIG 10 LONGITUDINAL CHARACTERISTICS 5 SINGLE NACELLE UNDERWING FILLED PYLON  
(A)MACH = .20

DATA SET SYMBOL: 0A62 826C9 0A62 826C9  
 (ADM050) (ADM001)

CONFIGURATION DESCRIPTION

FB 11626V8R5X10  
 FB 11626V8R5X9

NACA/ELEVON BOFLAP SPOBRK  
 .240 .000 -12.000 .000

REFERENCE INFORMATION  
 SREF 4.4119 SQ.FT.  
 LREF 19.2299 INCHES  
 BREF 37.9359 INCHES  
 XMRP 43.5974 INCHES  
 YMRP .0000 INCHES  
 ZMRP 15.1875 INCHES  
 SCALE .0405

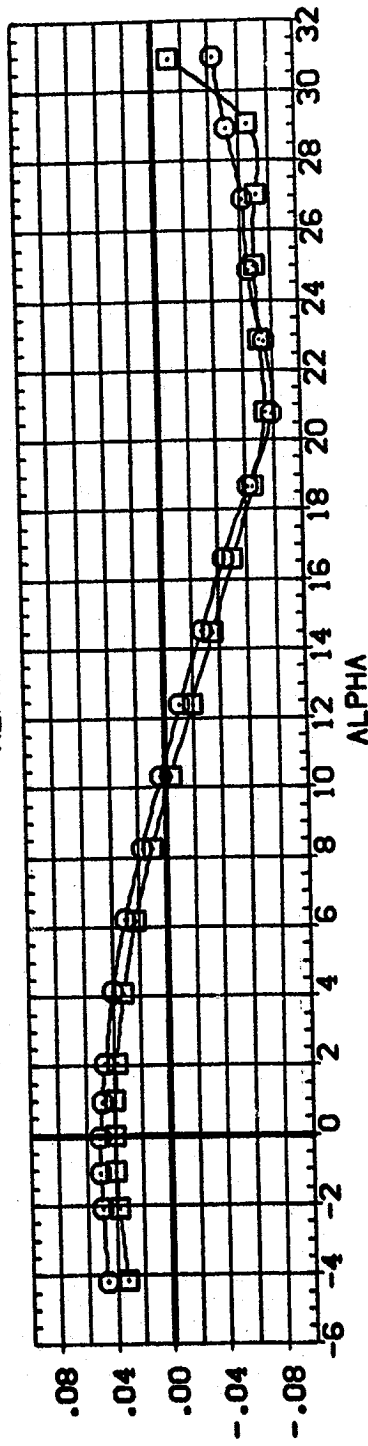
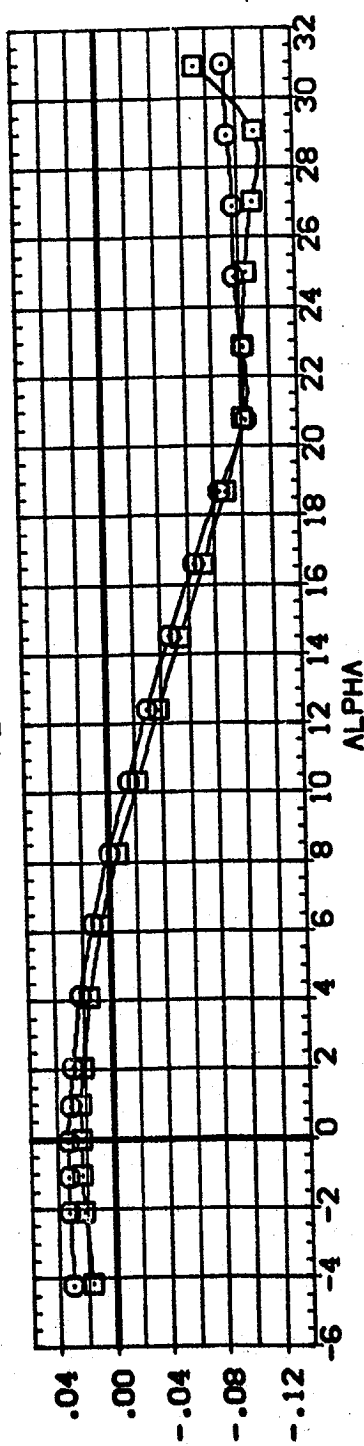
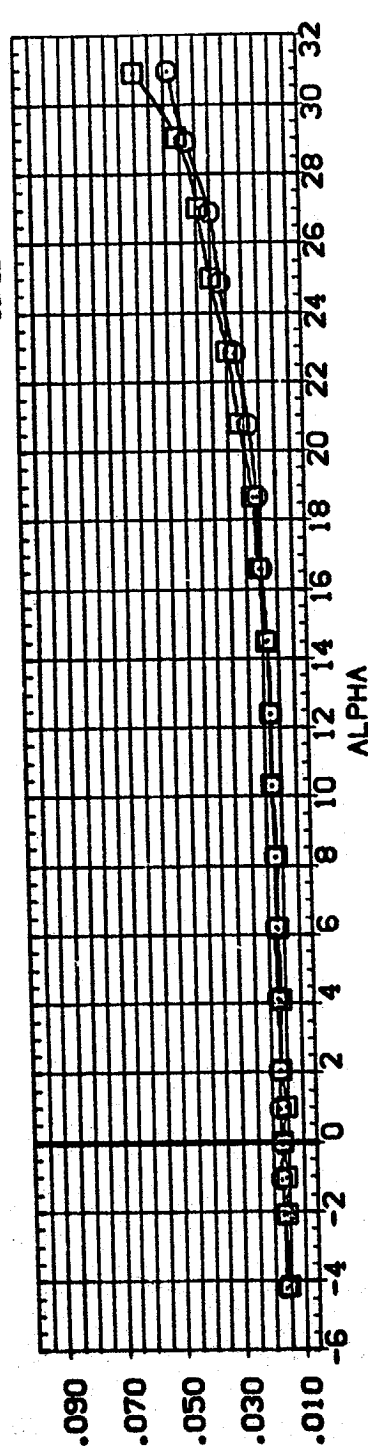


FIG 10 LONGITUDINAL CHARACTERISTICS 5 SINGLE NACELLE UNDERWING FILLED PYLON  
 (A)MACH = .20

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		REFERENCE INFORMATION	
(ADW001)	0462	B26C9	F8J55W116E26V8K10	SREF	4.4119 50.17
(ADW001)	0462	B26C9	F8 V116E26V8K10	LREF	19.2299 INCHES
				BREF	37.9359 INCHES
				XMRP	43.5974 INCHES
				YMRP	15.0000 INCHES
				ZMRP	15.1875 INCHES
				SCALE	.0405 SCALE

NACA/L .240  
ELEVON .000  
BOFLAP -12.000  
SPOBRK .000

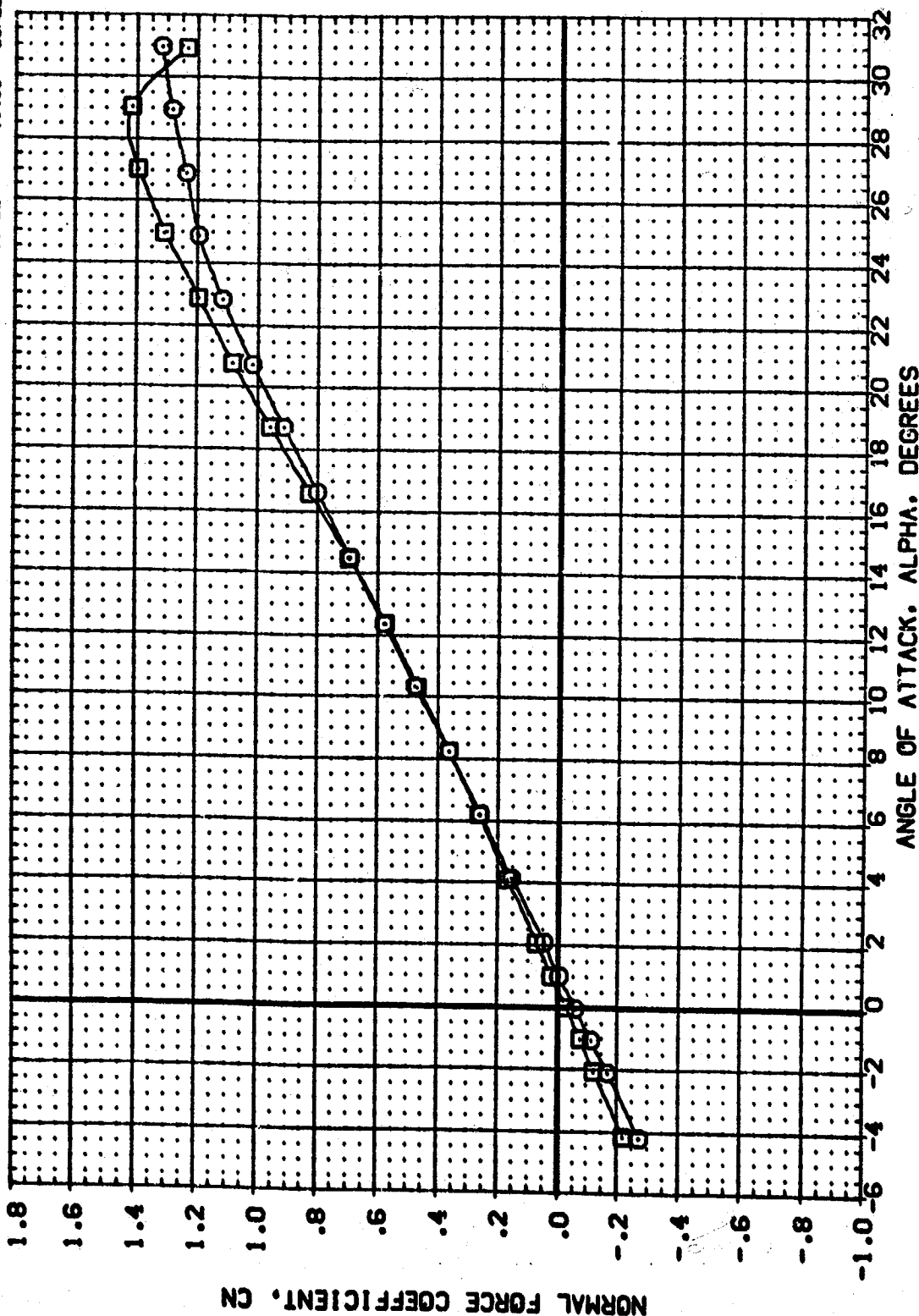


FIG 10 LONGITUDINAL CHARACTERISTICS 5 SINGLE NACELLE UNDERWING FILLED PYLON

(A)MACH = .20

DATA SET SYMBOL: (ADM001) ☐ (ADM001)

CONFIGURATION DESCRIPTION: 0A62 B26C9 F8 V116E26V85X10 0A62 B26C9 F8 V116E26V85X10

MACX/L: .240

ELEVON: .000

BOFLAP: -12.000

SPOBRK: .000

REFERENCE INFORMATION:

	SO. FT.	INCHES
SREF	4.4119	
LREF	19.2299	
BREF	37.9359	
XPRP	43.5974	
YPRP	.0000	
ZPRP	15.1875	
SCALE	.0405	

PITCHING MOMENT COEFFICIENT ABOUT FWD CG LIMIT (.65 LB), CLMFWO

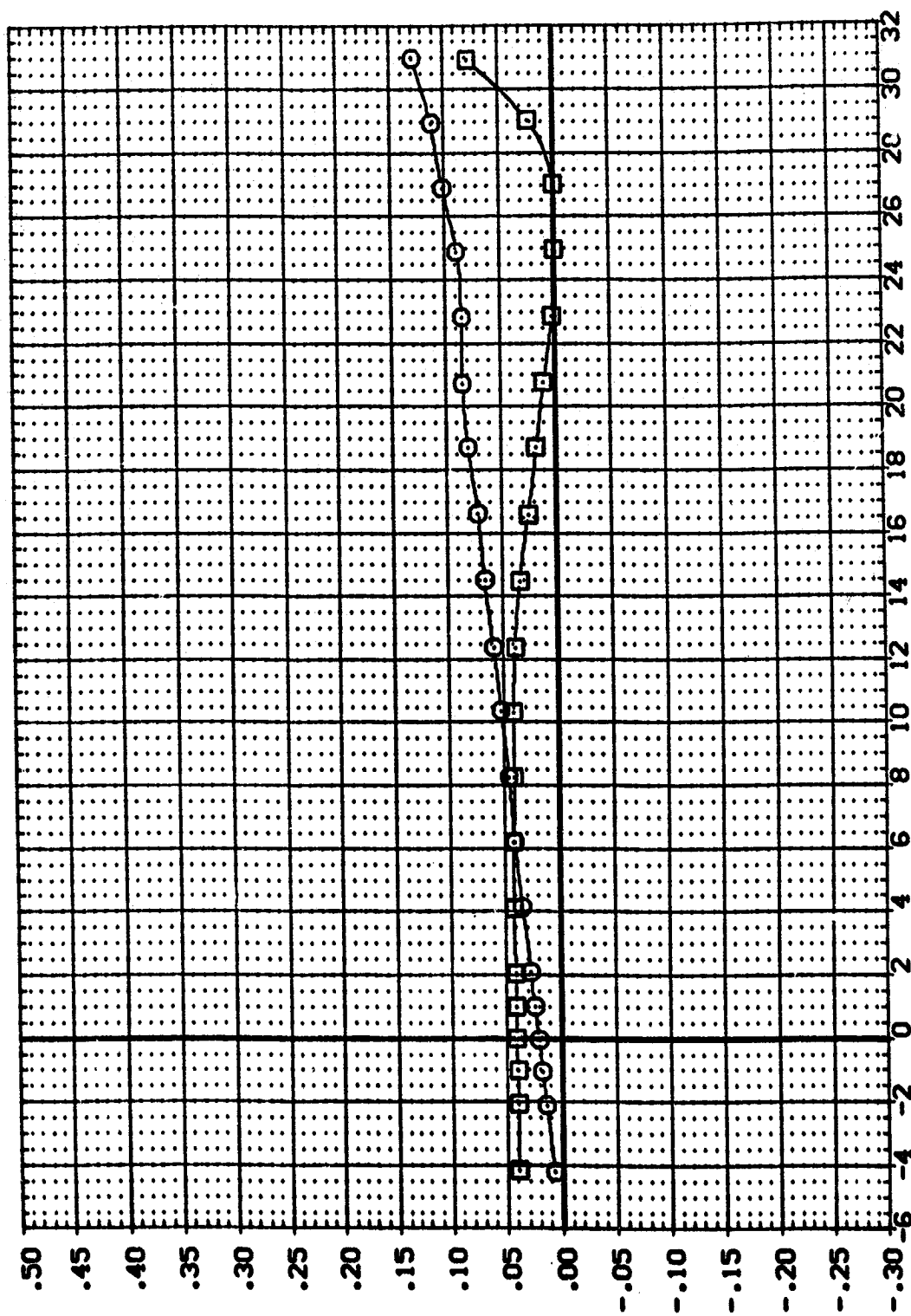


FIG 10 LONGITUDINAL CHARACTERISTICS 5 SINGLE NACELLE UNDERWING FILLED PYLON

(A)MACH = .20

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DATA SET SYMBOL (ADV001)  (ADV002) 

CONFIGURATION DESCRIPTION FB J55V116E26V8R5X10 FB V116E26V8R5X9

NACX/L .240

ELEVON .000 .000

BOFLAP -12.000 -12.000

SP08K .000 .000

REFERENCE INFORMATION

SREF 4.4119 50. FT.

LREF 19.2299 INCHES

BREF 37.9359 INCHES

XTRP 43.5974 INCHES

YTRP 10.000 INCHES

ZTRP 15.1875 INCHES

SCALE .0405

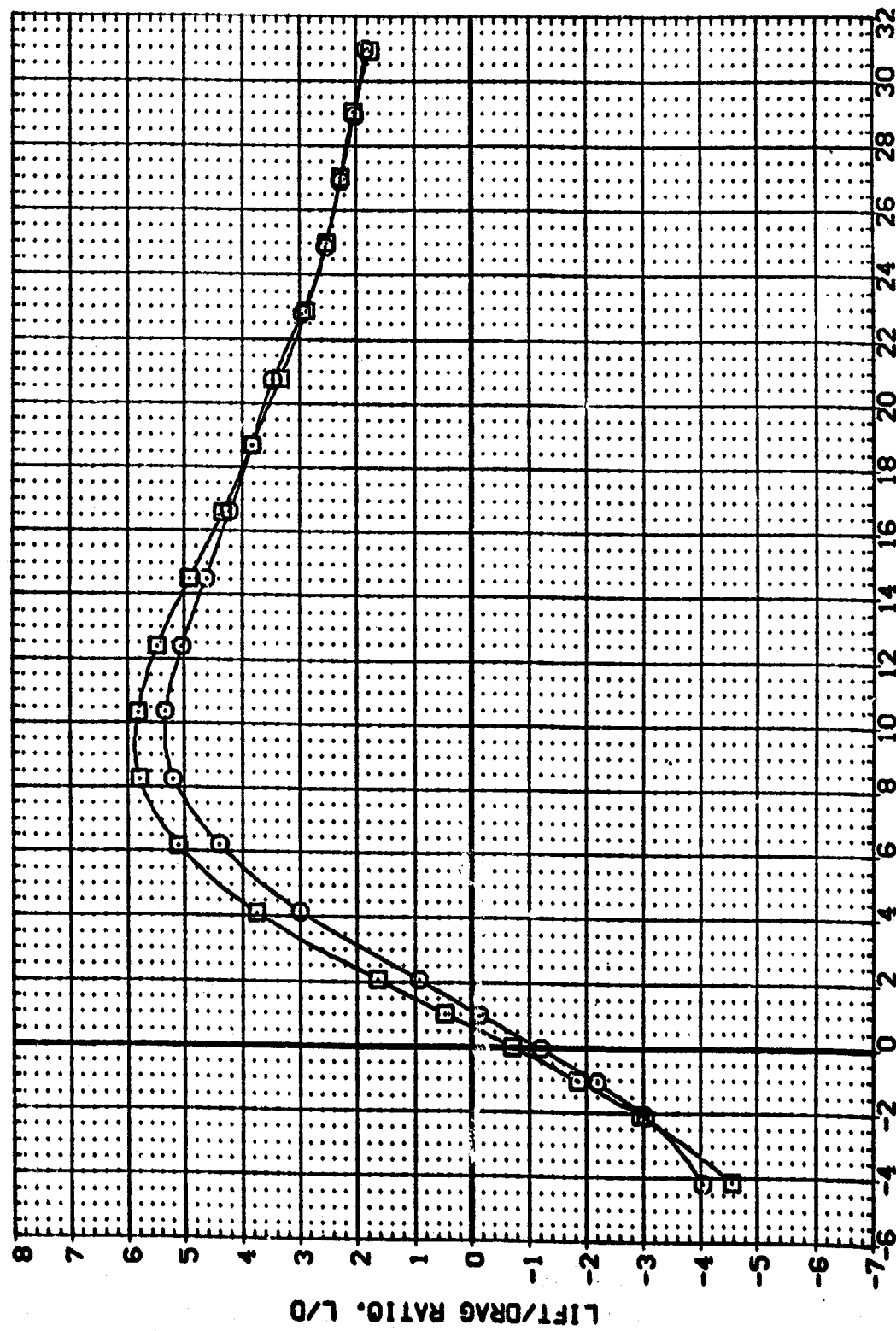


FIG 10 LONGITUDINAL CHARACTERISTICS 5 SINGLE NACELLE UNDERWING FILLED PYLON

(MACH = .20)

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACX/L	ELEVON	BDFLAP	SPOBRK	REFERENCE INFORMATION
(AD050)	0A62 B2C3	.240	.000	-12.000	.000	SREF 4.4119 50.FT.
(AD001)	0A62 B2C3		.000	-12.000	.000	LREF 19.2288 INCHES
						BREF 37.9359 INCHES
						YMRP 43.5974 INCHES
						ZMRP .0000 INCHES
						SCALE 15.1875 INCHES
						SCALE .0405

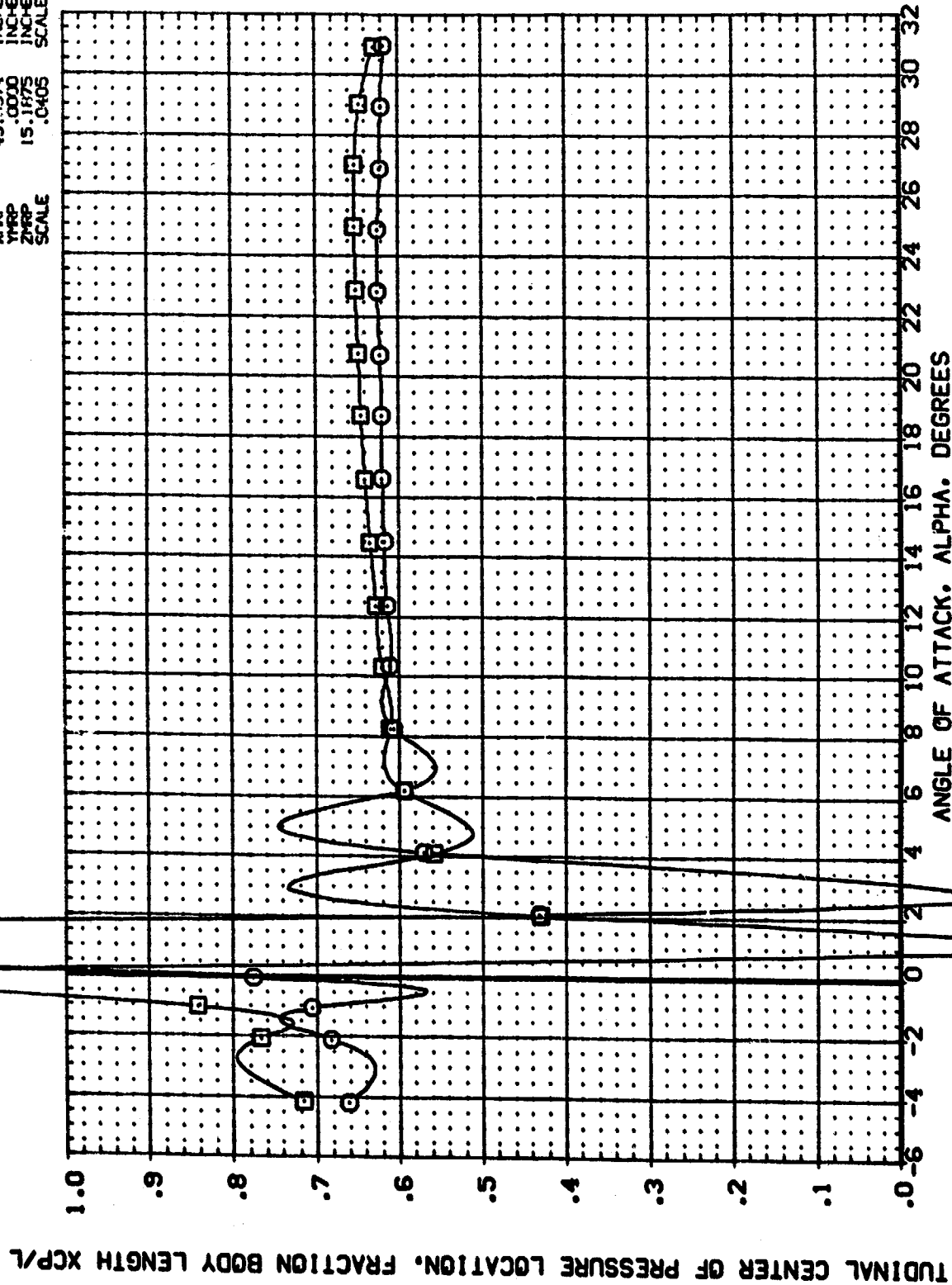


FIG 10 LONGITUDINAL CHARACTERISTICS 5 SINGLE NACELLE UNDERWING FILLED PYLON

(A)MACH = .20



DATA SET SYMBOL: 0162 826C9  
(AD0001) 0162 826C9  
CONFIGURATION DESCRIPTION: FBUSV116Z6V85X10  
F8 V116Z6V85X9

MAC/L: .240  
ELEVON: .000  
BOFLAP: -12.000  
SPORRK: .000  
REFERENCE INFORMATION:  
SREF: 4.4119 50. FT.  
LREF: 19.2259 INCHES  
BREF: 37.8359 INCHES  
XMRP: 43.5974 INCHES  
YMRP: .0000 INCHES  
ZMRP: 15.1875 INCHES  
SCALE: .0405

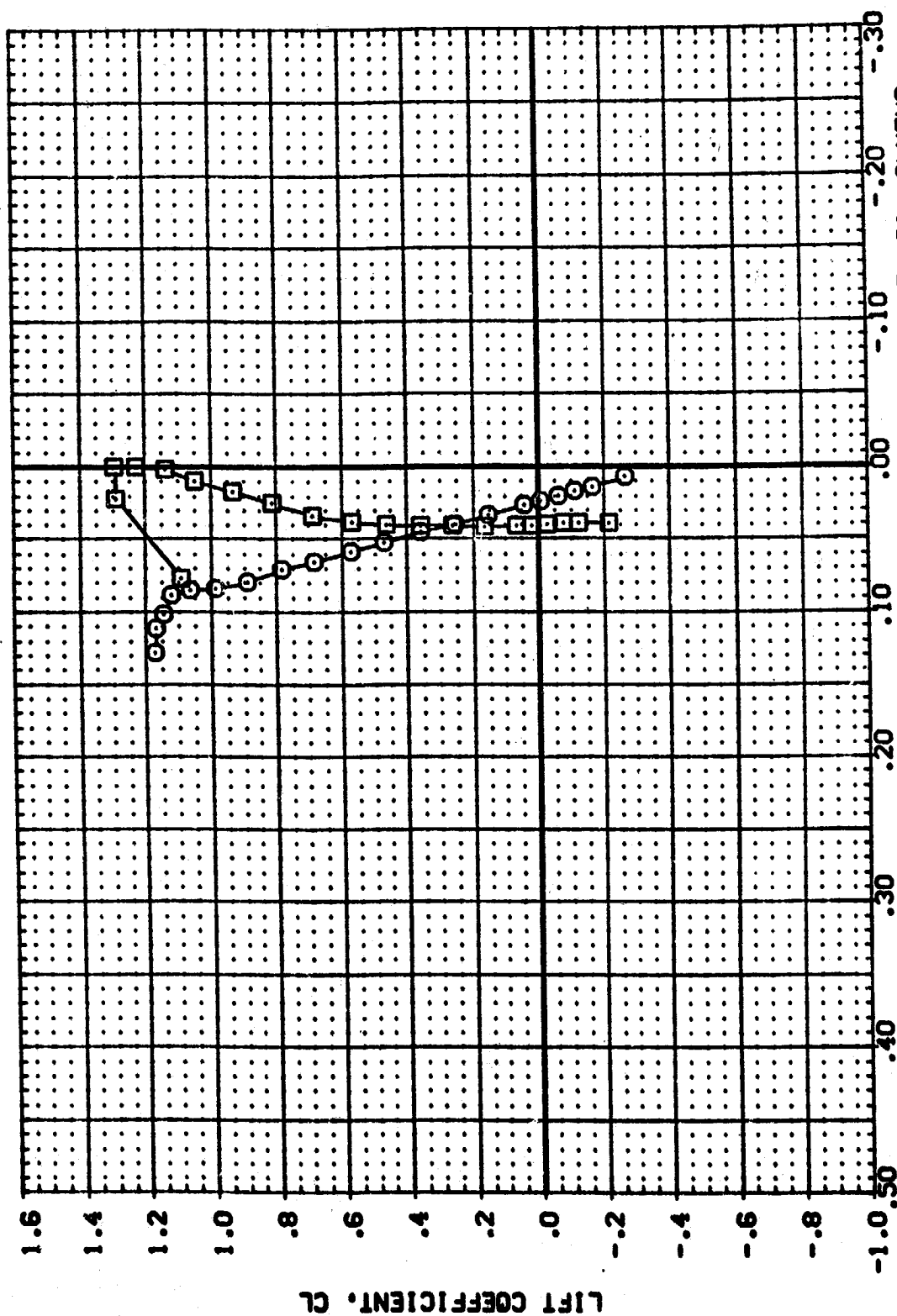


FIG 10 LONGITUDINAL CHARACTERISTICS 5 SINGLE NACELLE UNDERWING FILLED PYLON

(A)MACH = .20

DATA SET SYMBOL: 0A62 826C9  
 (ADW001) 0A62 826C9

CONFIGURATION DESCRIPTION:  
 FB8JSSV116E2SV8R3X10  
 FB V116E2SV8R3X9

NACA/L: .240  
 ELEVON: .000  
 BOFLAP: -12.000  
 SPOBRK: .000

REFERENCE INFORMATION:  
 SREF: 4.4119 50 FT.  
 LAREF: 19.2259 INCHES  
 BREF: 37.5359 INCHES  
 XREF: 43.5374 INCHES  
 YREF: .0000 INCHES  
 ZREF: 13.1875 INCHES  
 SCALE: .0405

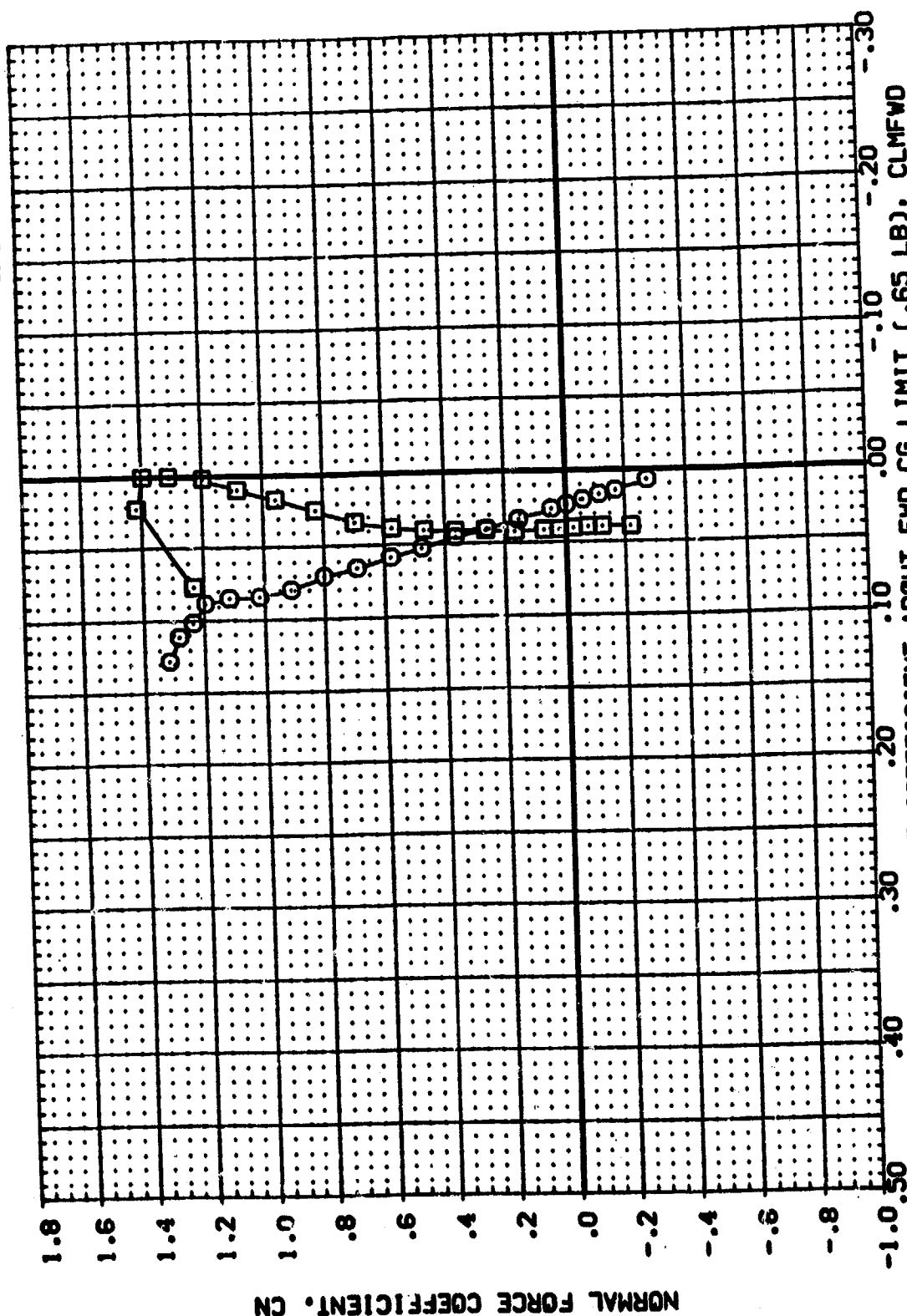


FIG 10 LONGITUDINAL CHARACTERISTICS 5 SINGLE NACELLE UNDERWING FILLED PYLON  
 PITCHING MOMENT COEFFICIENT ABOUT FWD CG LIMIT (.65 LB). CLMFWD

(A)MACH = .20

DATA SET SYMBOL  
(ADM001)

CONFIGURATION DESCRIPTION  
F8 V11626V8X3S

NACA/ELEVON  
.240

SPORW  
.000

REFERENCE INFORMATION  
SREF 4.4119 SO.FT.  
LREF 19.2358 INCHES  
BREF 37.9359 INCHES  
XREF 43.5974 INCHES  
YREF .0000 INCHES  
ZREF 15.1875 INCHES  
SCALE .0405

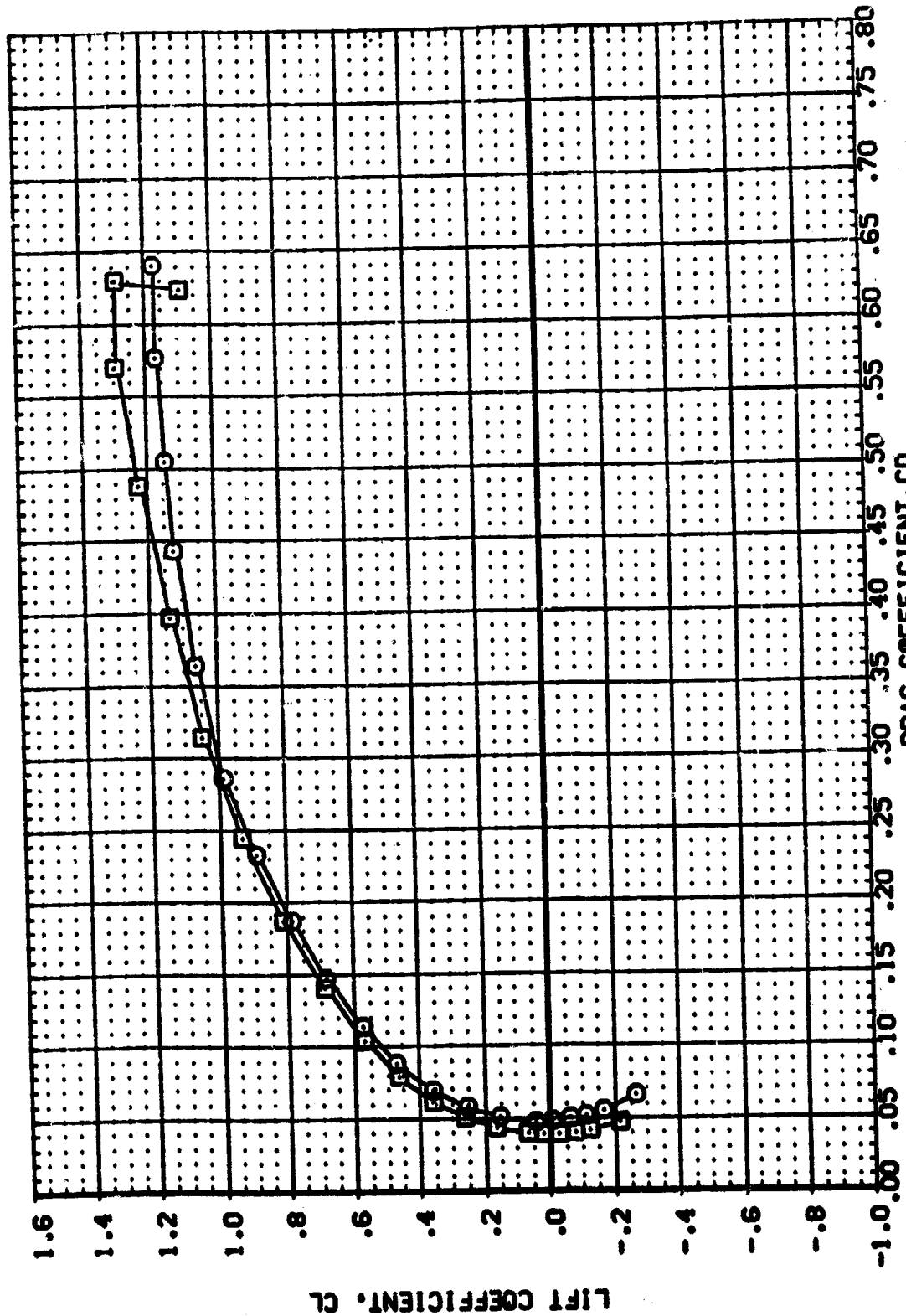


FIG 10 LONGITUDINAL CHARACTERISTICS 5 SINGLE NACELLE UNDERWING FILLED PYLON  
(A)MACH = .20

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		MAC/L		ELEVON		BOFLAP		SPORBK		REFERENCE INFORMATION			
(CM050)	□	0462	826C9	FB	VI16226185X3	.240	.000	-12.000	.000			SREF	4.4119	50. FT.	
(CM001)		0462	826C9	FB	VI16226185X3		.000	-12.000	.000			LINEP	19.2288	INCHES	
												REF	37.9359	INCHES	
												YREF	44.3813	INCHES	
												YREF	.0000	INCHES	
												ZREF	15.1875	INCHES	
												SCALE	.0405	SCALE	

PITCHING MOMENT COEFFICIENT ABOUT AFT CG LIMIT (.675 LB). CLMAFT

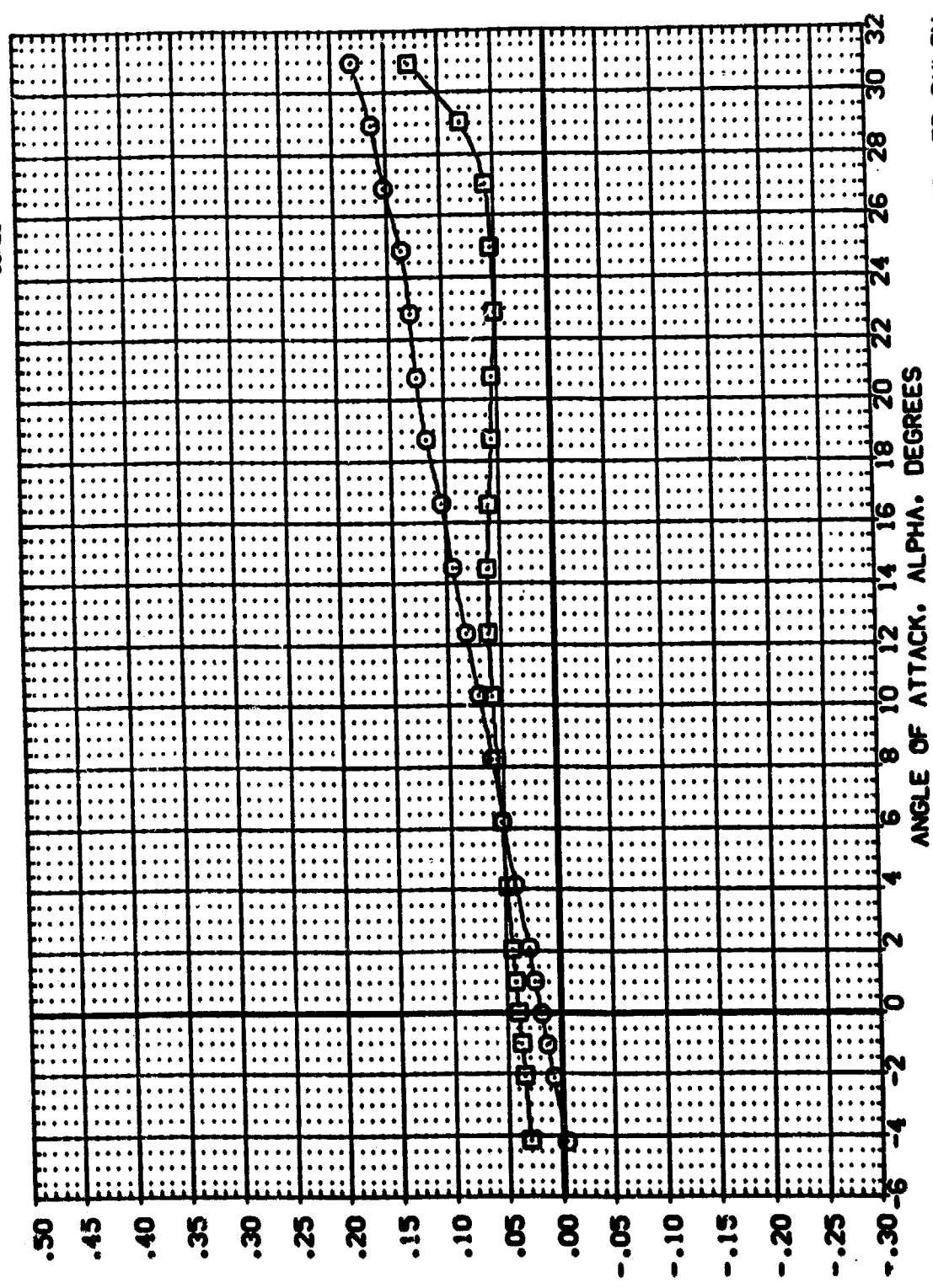


FIG 10 LONGITUDINAL CHARACTERISTICS 5 SINGLE NACELLE UNDERWING FILLED PYLON  
 (A)MACH = .20



# DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RDV001)	QAG2	B25C9	FBUSV11E25VBRX10
(RDV002)	QAG2	B25C9	FBUSV11E25VBRX10
(RDV003)	QAG2	B25C9	FBUSV11E25VBRX10
(RDV004)	QAG2	B25C9	FBUSV11E25VBRX10

ALPHA	NACA	SPORK	RLOOR	REFERENCE INFORMATION
.000	.240	.000	.000	SREF 4.4119 50.FT.
10.000	.240	.000	.000	LREF 19.2359 INCHES
.000		.000	.000	BREF 37.9559 INCHES
10.000		.000	.000	WREF 43.5574 INCHES
				ZWREF 15.1875 INCHES
				SCALE .0405

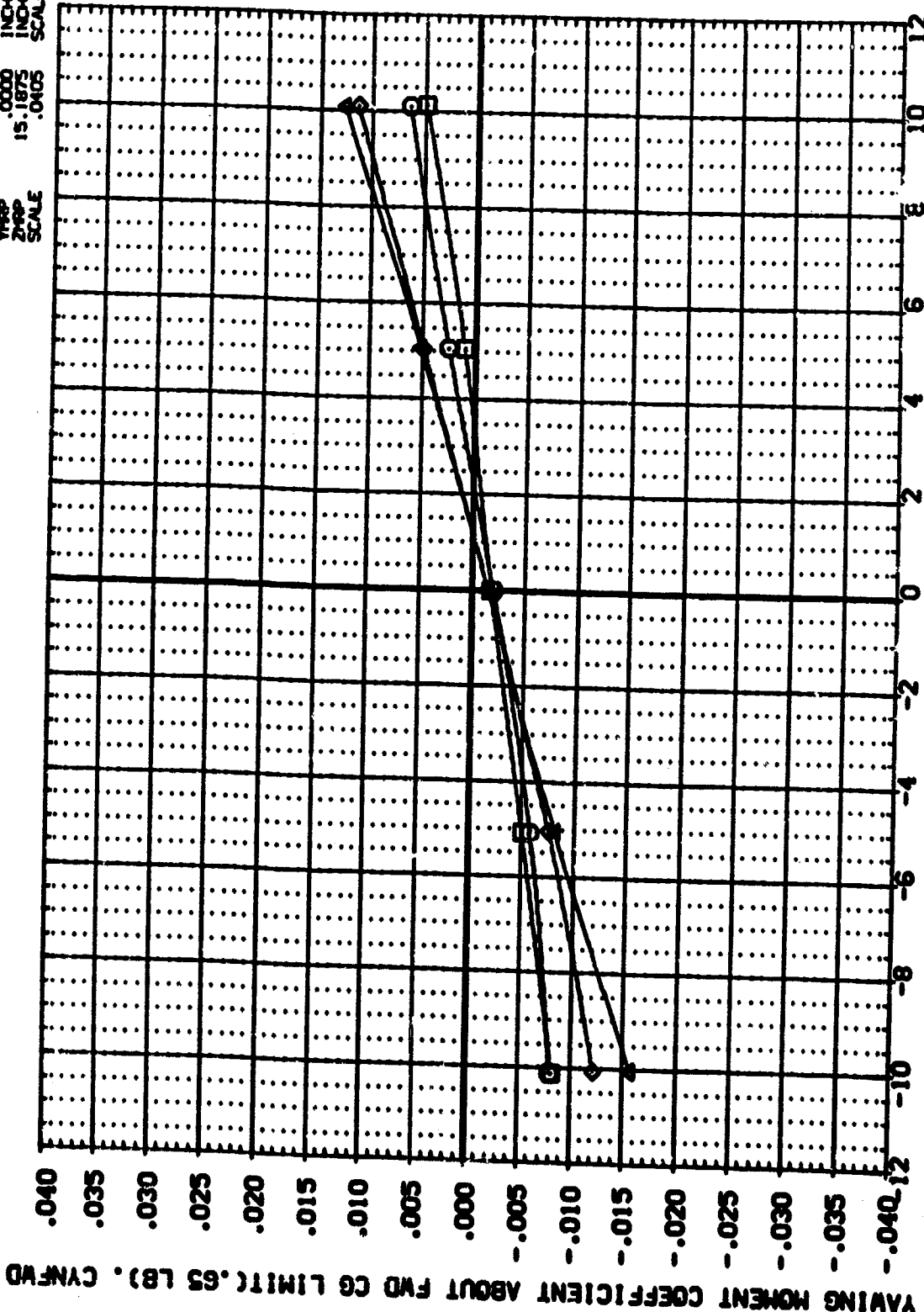


FIG 11 LAT. / DIR. CHARACTERISTICS 5 SINGLE NACELLE UNDERWING FILLED PYLON  
(A)MACH = .20

# DATA SET SYMBOL

(ROW001)  
(ROW002)  
(ROW003)  
(ROW004)

04G2 02GCS  
04G2 02GCS  
04G2 02GCS  
04G2 02GCS

FLV5SV11GE2SV8R3X110  
FLV5SV11GE2SV8R3X110  
FLV5SV11GE2SV8R3X110  
FLV5SV11GE2SV8R3X110

ALPHA  
MACH  
SPDRK  
BLDDR

REFERENCE INFORMATION  
SREF 4.4119 50-FT.  
LREF 19.2293 INCHES  
BREF 37.5359 INCHES  
XREF 43.5974 INCHES  
YREF .0000 INCHES  
ZREF 15.1875 INCHES  
SCALE .0405

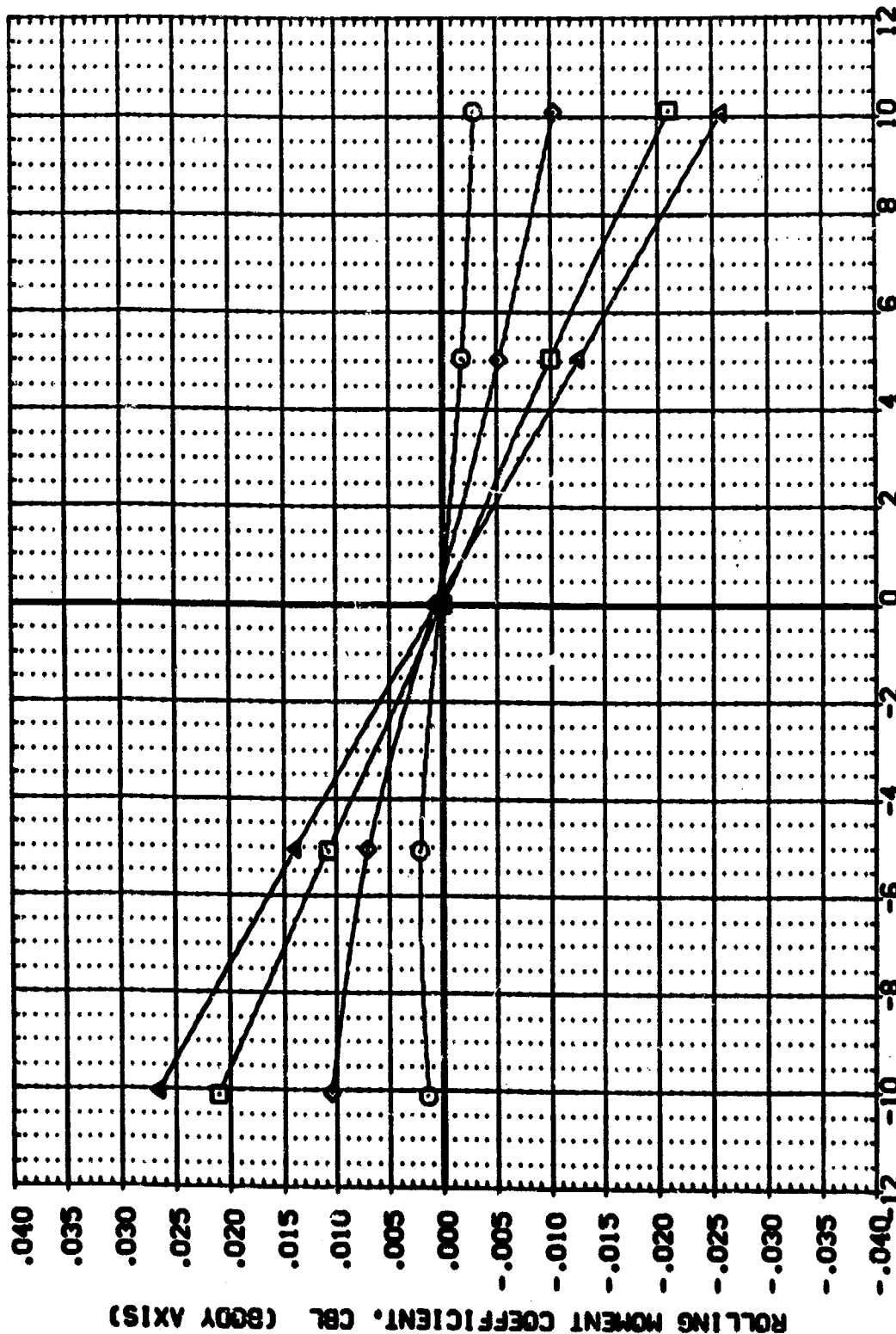


FIG 11 LAT. / DIR. CHARACTERISTICS 5 SINGLE NACELLE UNDERWING FILLED PYLON

(A)MACH = .20



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(R0V051)	0A52	B26C9	F8J5SV116E26V85X10
(R0V052)	0A52	B26C9	F8J5SV116E26V85X10
(R0V002)	0A52	B26C9	F8 V116E26V85X9
(R0V004)	0A52	B26C9	F8 V116E26V85X9

REFERENCE INFORMATION

	SO. FT.	INCHES
SREF	4.4119	
LREF	19.2299	
BREF	37.9359	
XMRP	43.5974	
YMRP	.0000	
ZMRP	15.1875	
SCALE	.0405	

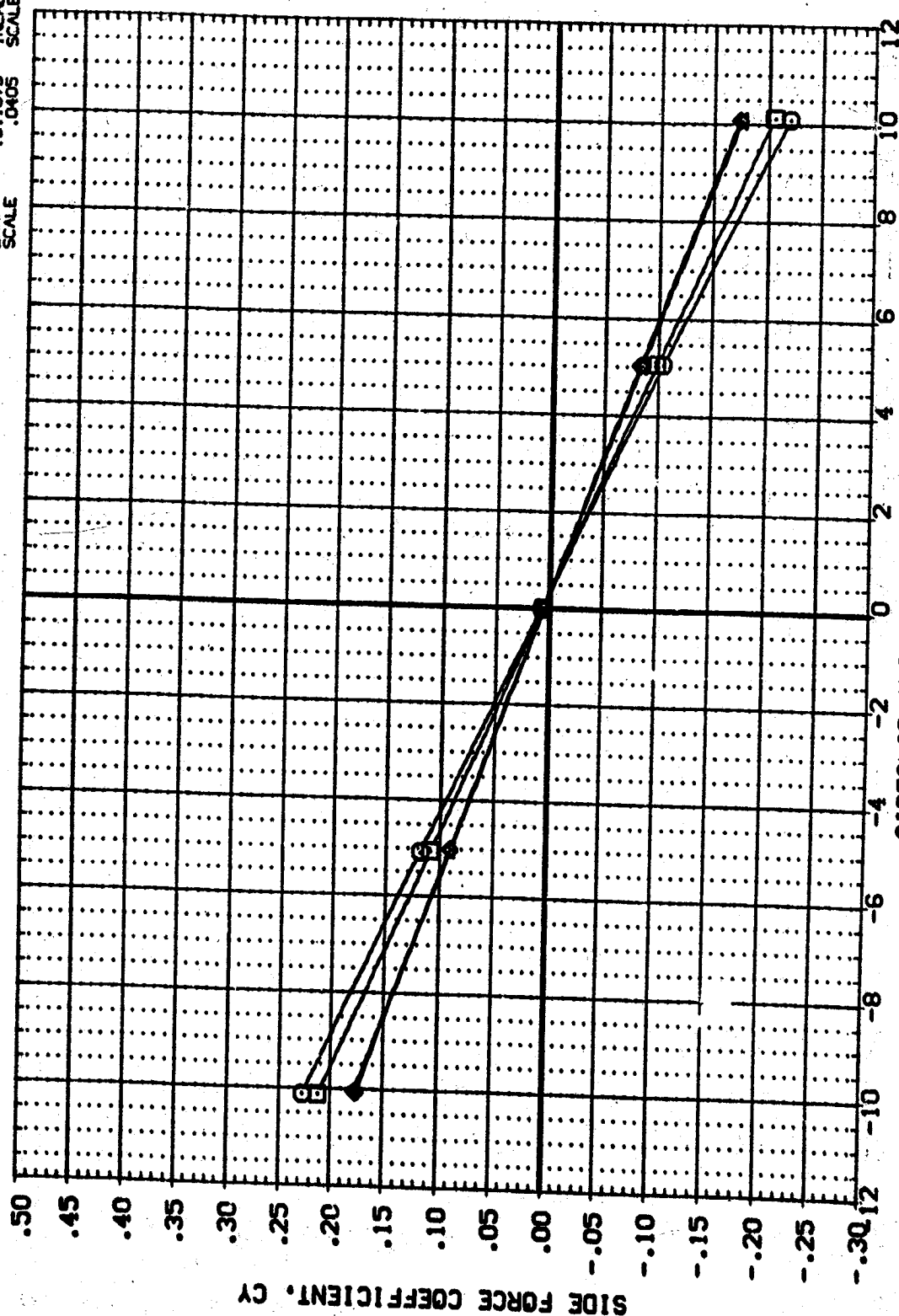


FIG 11 LAT. / DIR. CHARACTERISTICS 5 SINGLE NACELLE UNDERWING FILLED PYLON  
(M)MACH = .20

YAWING MOMENT COEFFICIENT DERIVATIVE WITH BETA, CYMBET, PER DEGREE

DATA SET SYMBOL (EDM001) (EDM002) 8  
 CONFIGURATION DESCRIPTION  
 0A62 B26C9 F8JSSV1IE23VBR5X10  
 0A62 B26C9 F8 V11E23VBR5X9

NACX/L .240  
 ELEVON .000  
 BOFLAP -12.000  
 SPOBRK .000

REFERENCE INFORMATION  
 SREF 4.4119 50.FT.  
 LREF 19.2299 INCHES  
 BREF 37.5359 INCHES  
 XTRP 43.5974 INCHES  
 YTRP .0000 INCHES  
 ZTRP 15.1875 INCHES  
 SCALE .0405

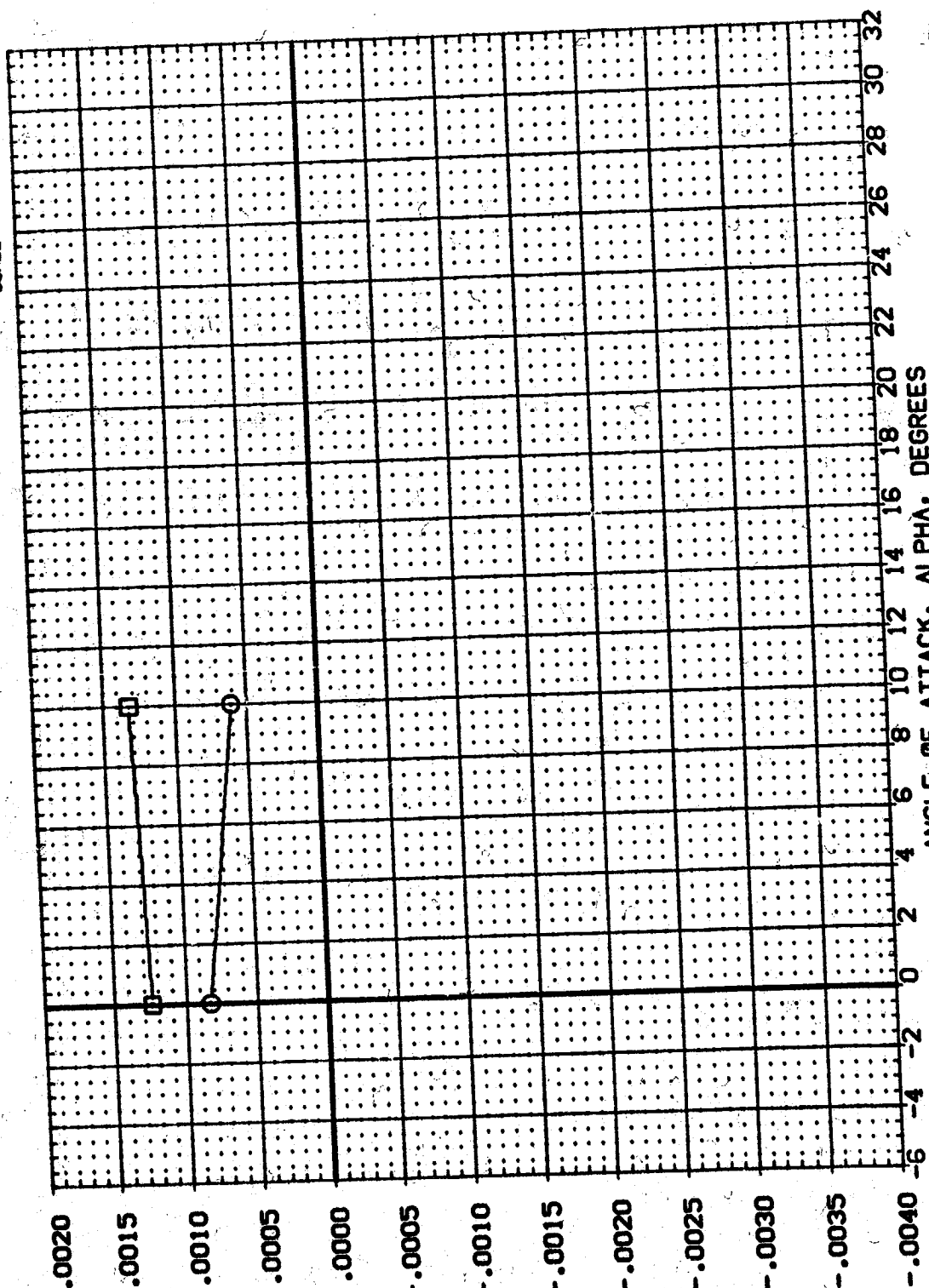


FIG 11 LAT. / DIR. CHARACTERISTICS 5 SINGLE NACELLE UNDERWING FILLED PYLON

DATA SET SYMBOL    CONFIGURATION DESCRIPTION  
 (EDM001)    DAG2 B26C9    FBUSV116E26V8SX10  
 (EDM002)    DAG2 B26C9    FB    V116E26V8SX9

NACVAL    ELEVON    BCLAP    SPOBRK  
 .240    .000    -12.000    .000  
 .000    .000    -12.000    .000

REFERENCE INFORMATION  
 SREF    4.4119    SO.FT.  
 LREF    19.2299    INCHES  
 BREF    37.5359    INCHES  
 XGRP    43.5974    INCHES  
 YGRP    0.0000    INCHES  
 ZGRP    15.1875    INCHES  
 SCALE    .0465

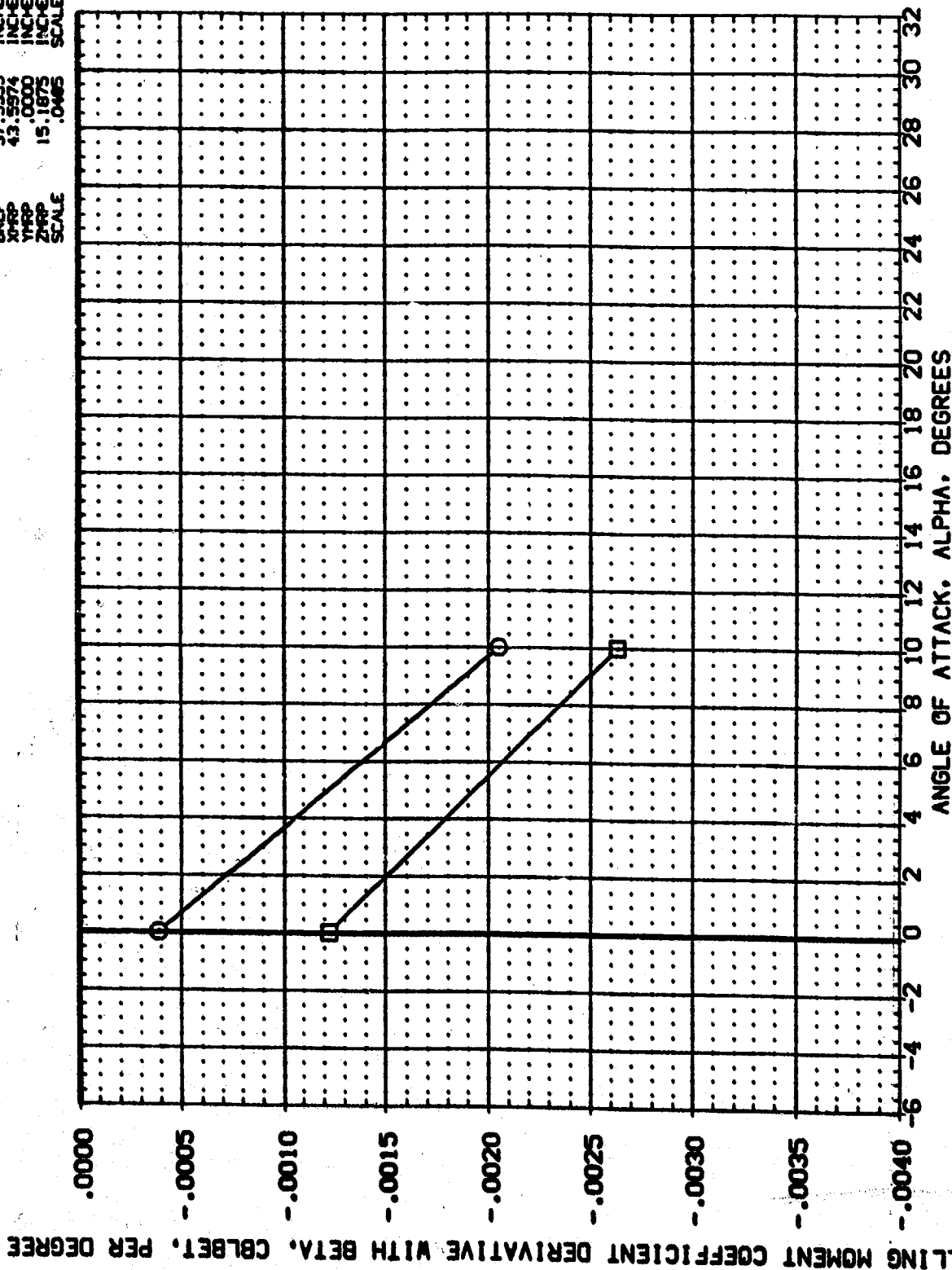


FIG 11 LAT. / DIR. CHARACTERISTICS 5 SINGLE NACELLE UNDERWING FILLED PYLON

DATA SET SW30L CONFIGURATION DESCRIPTION REFERENCE INFORMATION

(ED0051)	DAG2	B26C9	F8J55V11GE26V85X10	SREF	4.4119	50. FT.
(ED0002)	DAG2	B26C9	F8 V11GE26V85X9	LREF	19.2298	INCHES
				BREF	37.9559	INCHES
				XMRP	43.5574	INCHES
				YMRP	.0000	INCHES
				ZMRP	15.1875	INCHES
				SCALE	.0405	SCALE

NACA/ELEVON BDFLAP SPOBRK

.240	.000	-12.000	.000
	.000	-12.000	.000

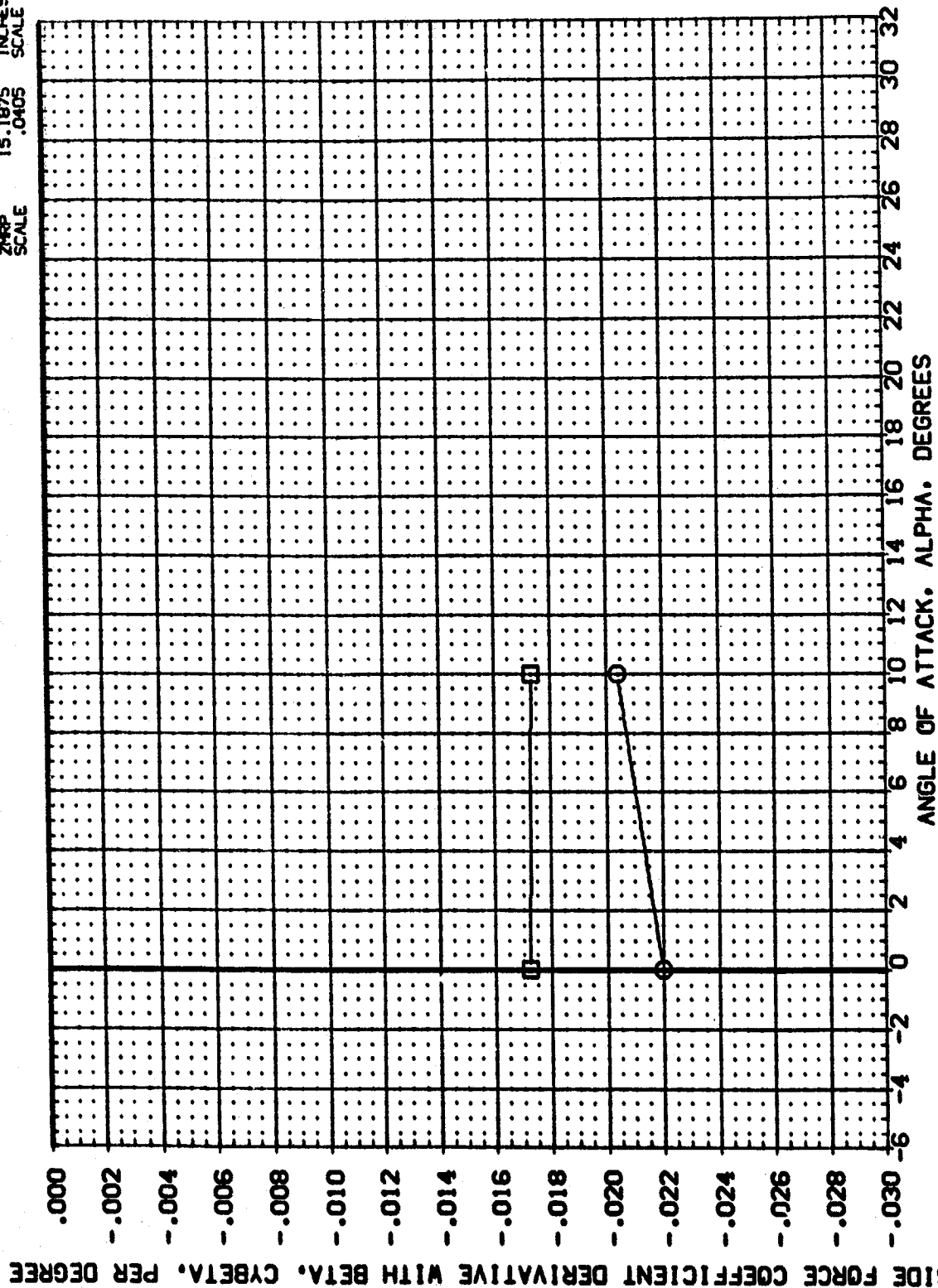


FIG 11 LAT. / DIR. CHARACTERISTICS 5 SINGLE NACELLE UNDERWING FILLED PYLON

DATA SET SYMBOL    CONFIGURATION DESCRIPTION  
 (AD0017)    0452    B26C9    FB43N116E26V85X10  
 (AD0020)    0452    B26C9    FB43N116E26V85X10  
 (AD0021)    0452    B26C9    FB    V116E26V85X9

NACA/L    ELEVON    BOFLAP    SPDRX  
 .000    .000    -12.000    .000  
 .480    .000    -12.000    .000

REFERENCE INFORMATION  
 SREF    4.4119    50.FT.  
 LREF    19.2299    INCHES  
 BREF    37.9359    INCHES  
 XMRP    43.5974    INCHES  
 YMRP    .0000    INCHES  
 ZMRP    15.1875    INCHES  
 SCALE    .0405    SCALE

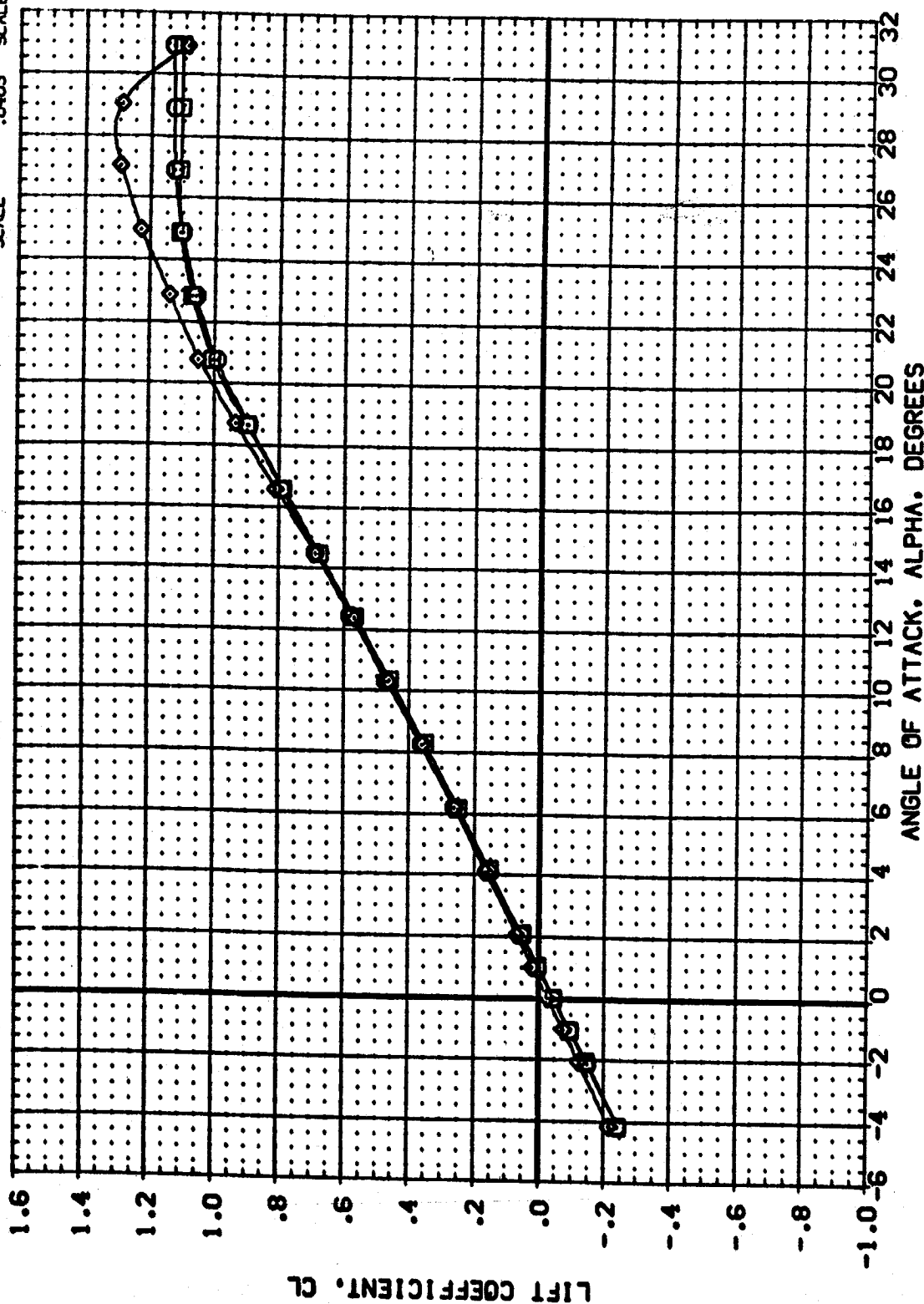


FIG 12 LONGITUDINAL CHARACTERISTICS UNDERWING CLUSTER 6 NAC X0 = 950 AND 1050  
 (A)MACH = .20    PAGE 69

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (ADW017) DAG2 B26C9 FB4/3W116E26V85X10  
 (ADW020) DAG2 B26C9 FB4/3W116E26V85X10  
 (ADW001) DAG2 B26C9 FB V116E26V85X3

NACA/E ELEVON BDFLAP SPDBRK REFERENCE INFORMATION  
 .000 .000 .000 SREF 4.4119 SO.FT.  
 .480 .000 -12.000 LREF 19.2299 INCHES  
 .000 .000 -12.000 BRP 37.9359 INCHES  
 .000 .000 .000 YMRP 43.5974 INCHES  
 .000 .000 .000 ZMRP .0000 INCHES  
 .000 .000 .000 SCALE 15.1875 INCHES  
 .0405 SCALE

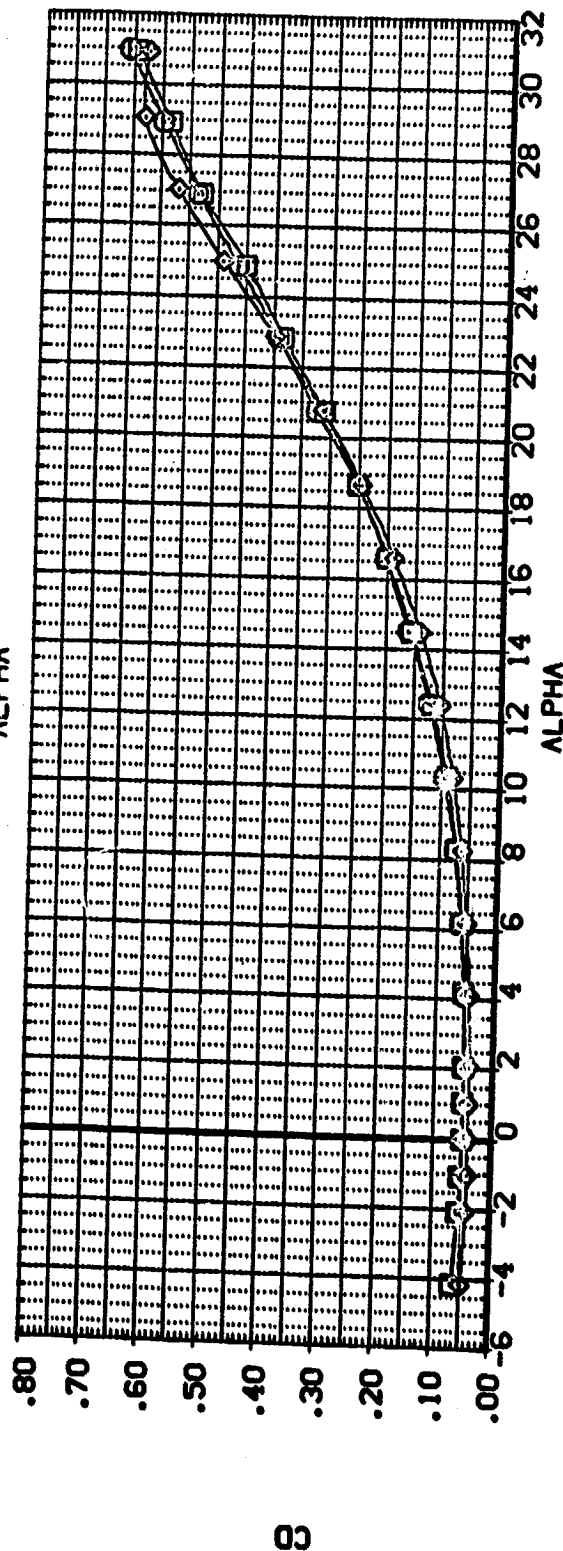
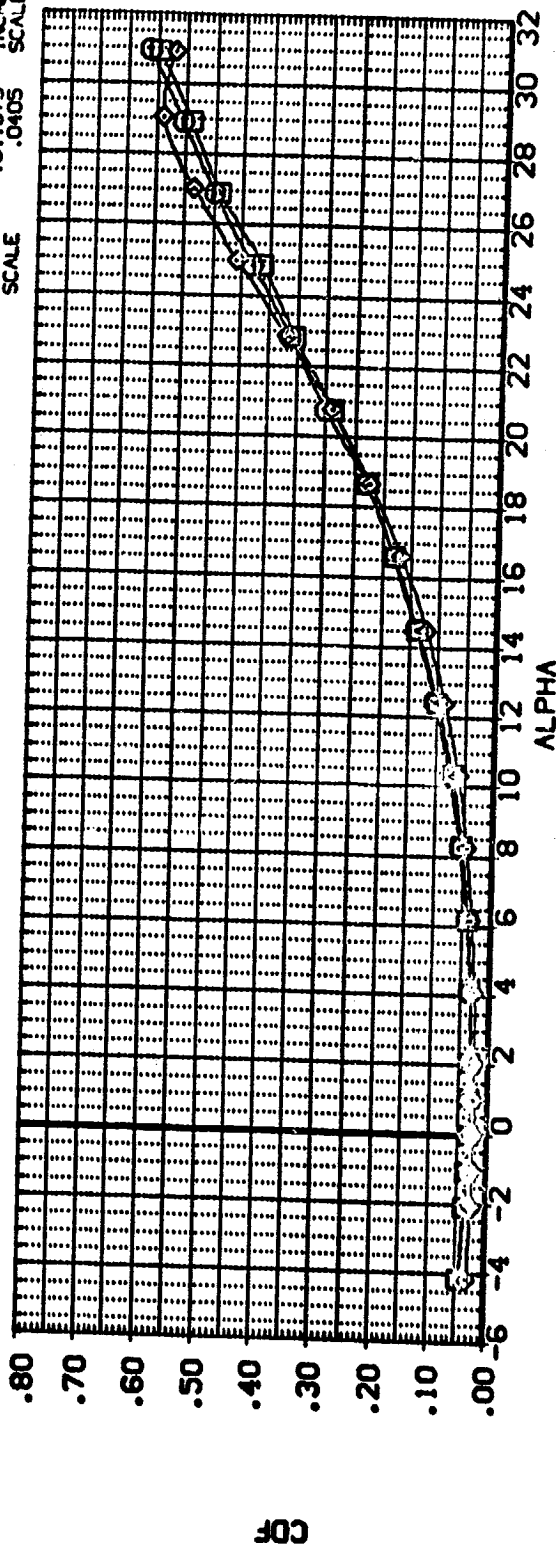


FIG 12 LONGITUDINAL CHARACTERISTICS UNDERWING CLUSTER 6 NAC X0 = 950 AND 1050  
 (A)MACH = .20

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		NACA/ELEVON		SPDRK		REFERENCE INFORMATION	
(ADVO17)	0A62	826C9	F8J43J11E26V85X10	.000	.000	.000	SREF	4.4119	50.FT.
(ADVO20)	0A62	826C9	F8J43J11E26V85X10	.000	.000	.000	LREF	19.2299	INCHES
(ADVO01)	0A62	826C9	F8 J11E26V85X9	.480	.000	.000	BREF	37.9359	INCHES
							XREF	43.5974	INCHES
							YREF	.0000	INCHES
							ZREF	15.1875	INCHES
							SCALE	.0405	SCALE

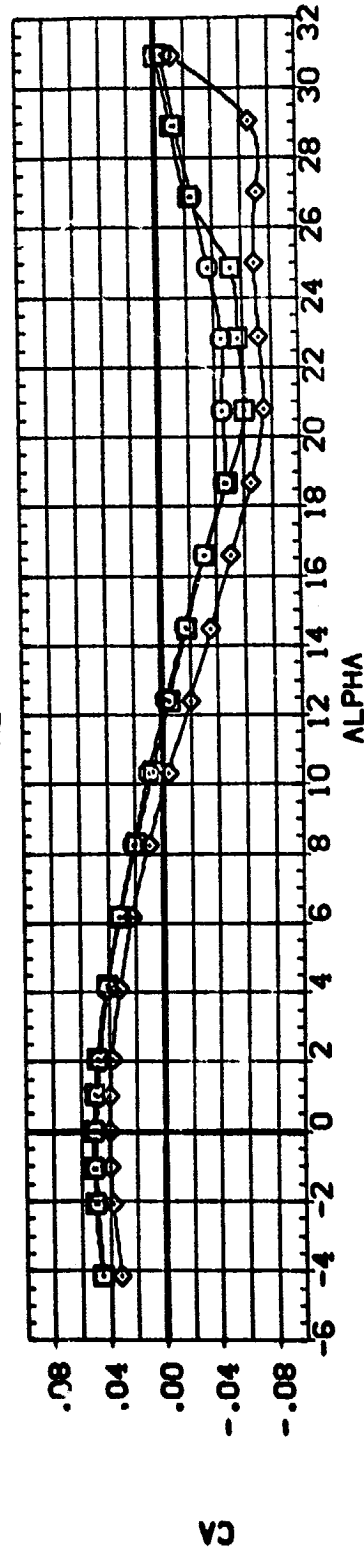
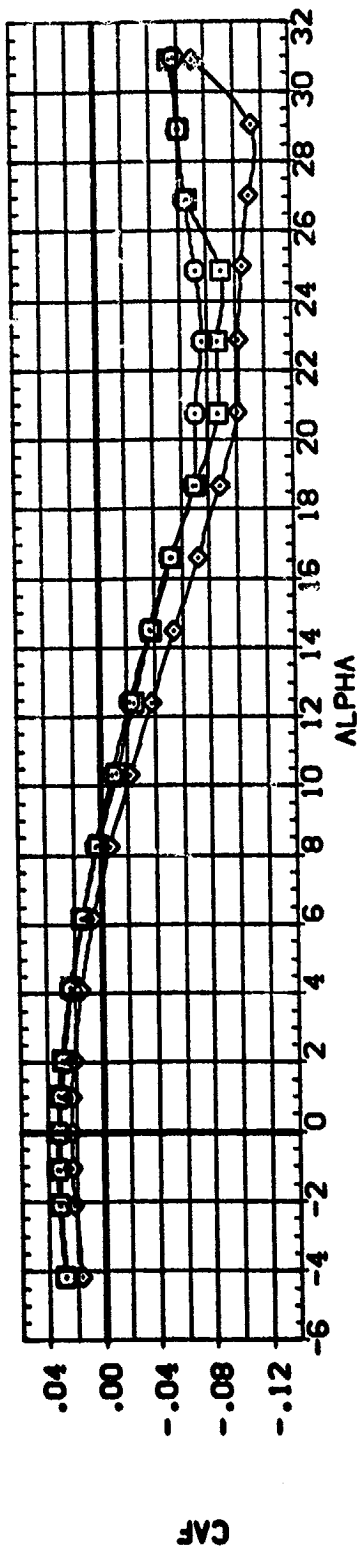
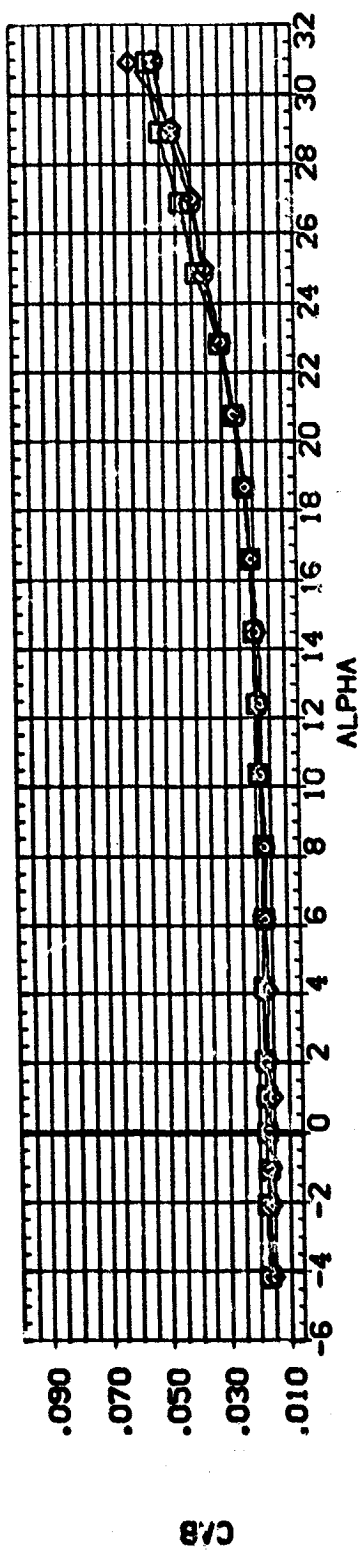


FIG 12 LONGITUDINAL CHARACTERISTICS UNDERWING CLUSTER 6 NAC X0 = 950 AND 1050  
 (A)MACH = .20 PAGE 71

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NACA/E	ELEVON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(ADW017)	QASZ B26C9	.000	.000	-12.000	.000	SREF 4.4119 50.FT.
(ADW020)	QASZ B26C9	.480	.000	-12.000	.000	LREF 19.2299 INCHES
(ADW001)	QASZ B26C9		.000	-12.000	.000	BREF 37.5359 INCHES
						XREF 43.5974 INCHES
						YREF .0000 INCHES
						ZREF 15.1875 INCHES
						SCALE .0405

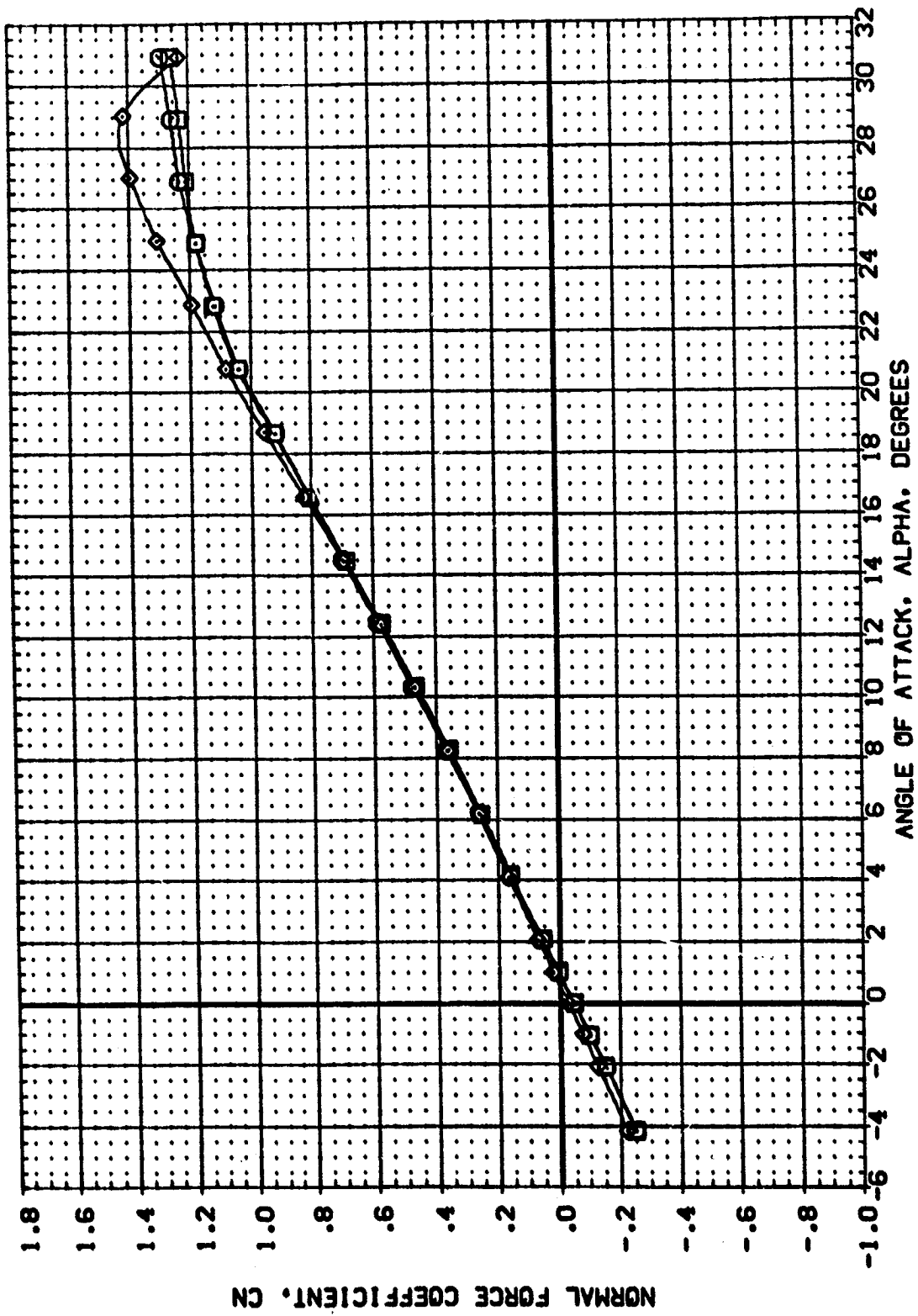


FIG 12 LONGITUDINAL CHARACTERISTICS UNDERWING CLUSTER 6 NAC X0 = 950 AND 1050  
 (A)MACH = .20  
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DATA SET SYMBOL	CONF	DESCRIPTION	NACA/L	ELEVON	BOFLAP	SPDRK	REFERENCE INFORMATION
(AD0017)	0A62	B26C9	.000	.000	-12.000	.000	SREF 4.4119 50. FT.
(AD0020)	0A62	B26C9	.480	.000	-12.000	.000	LREF 19.2259 INCHES
(AD0031)	0A62	B26C9		.000	-12.000	.000	BREF 37.9359 INCHES
							XREF 43.5974 INCHES
							YREF .0000 INCHES
							ZREF 15.1875 INCHES
							SCALE .0405

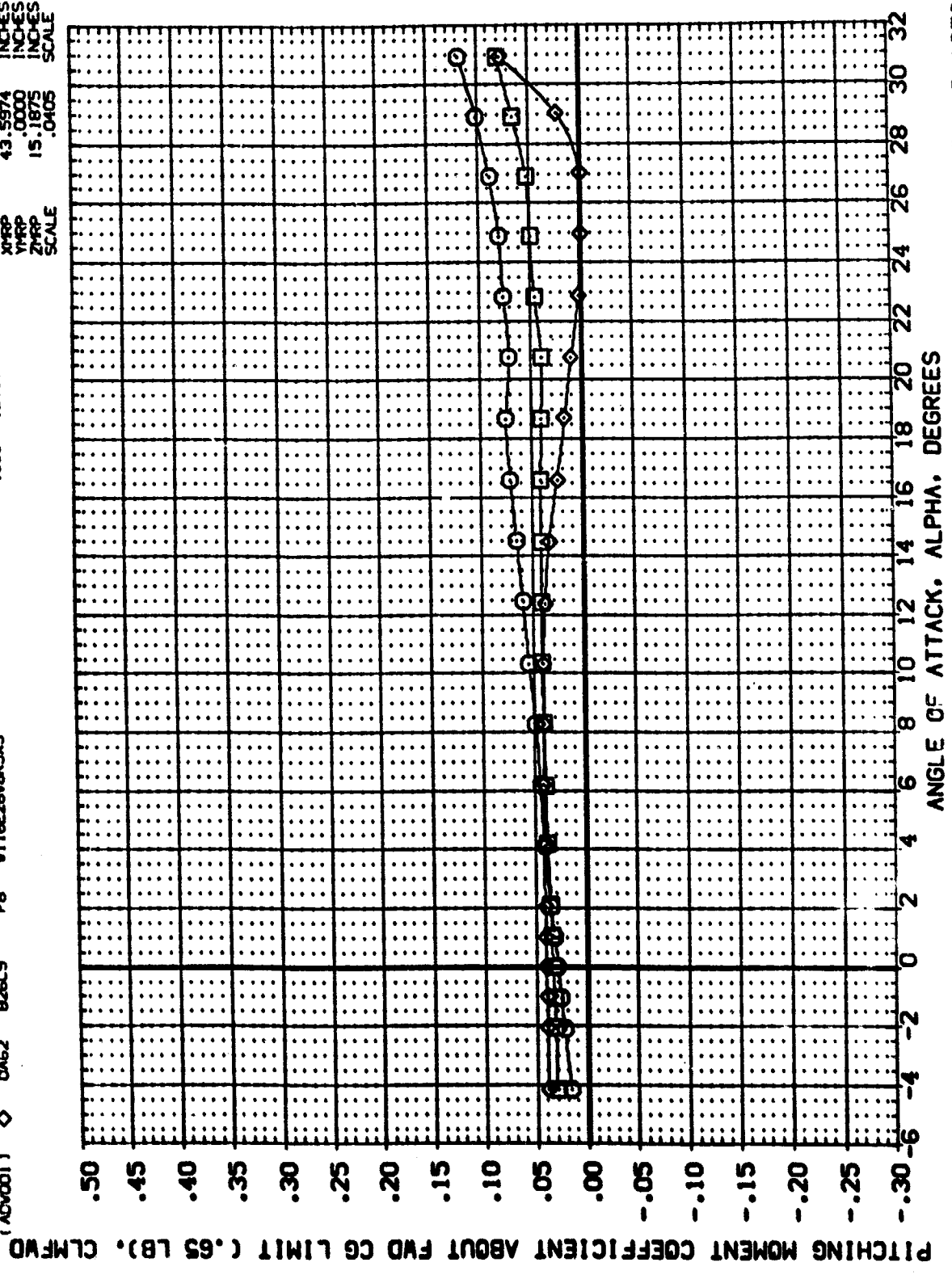


FIG 12 LONGITUDINAL CHARACTERISTICS UNDERWING CLUSTER 6 NAC X0 = 950 AND 1050  
 (A)MACH = .20 PAGE 73

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (ADM017) 0462 B26C9 F8J43V116E26V8R5X10  
 (ADM020) 0462 B26C9 F8J43V116E26V8R5X10  
 (ADM001) 0462 B26C9 F8 V116E26V8R5X9

NACA/ELEVON BOFLAP SPOBRK  
 .000 .000 .000  
 .480 .000 .000  
 .000 -12.000 .000  
 .000 -12.000 .000

REFERENCE INFORMATION  
 SREF 4.4119 50. FT.  
 LREF 19.2298 INCHES  
 BREF 37.9359 INCHES  
 XMRP 43.5574 INCHES  
 YMRP .0000 INCHES  
 ZMRP 15.1875 INCHES  
 SCALE .0405

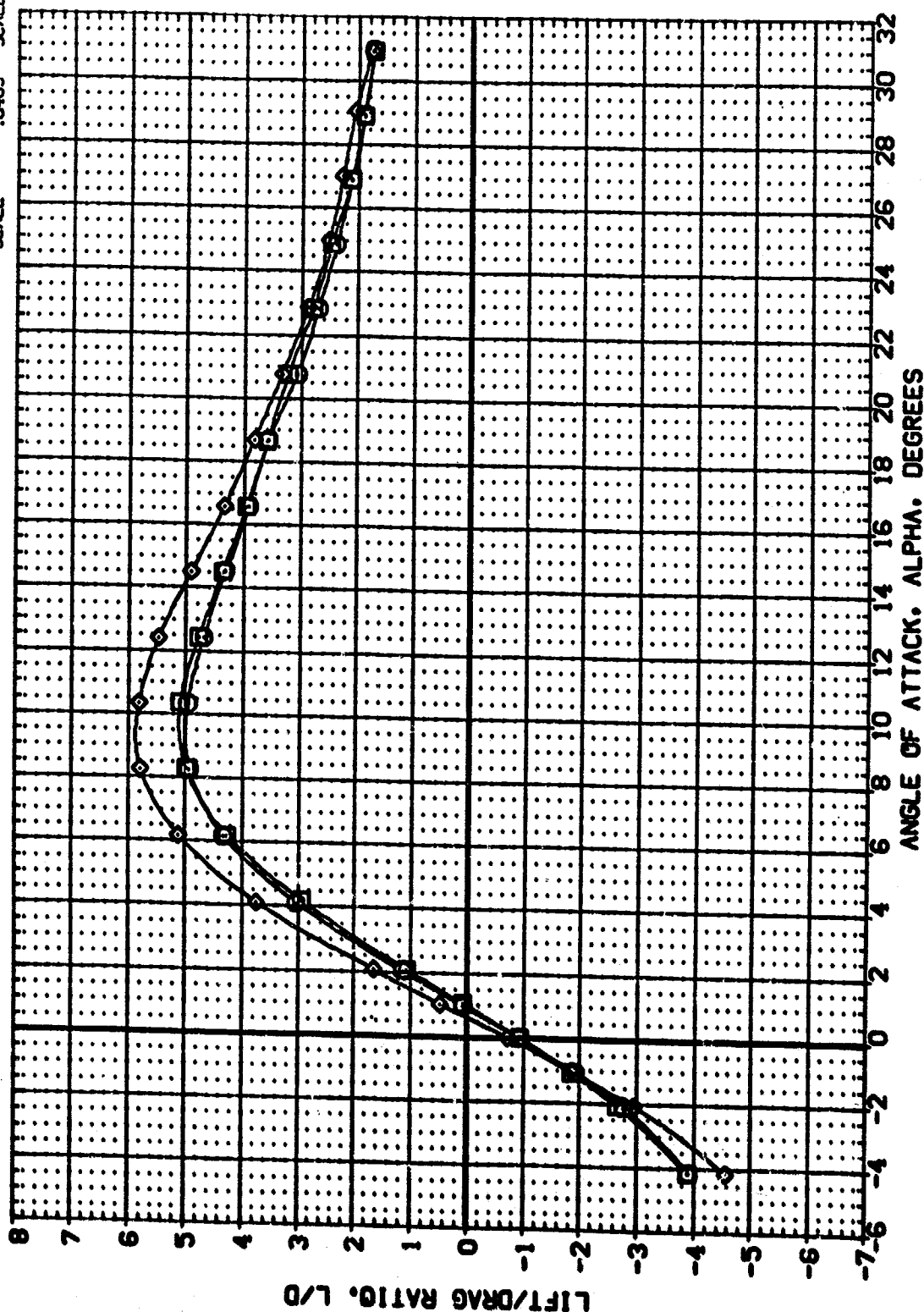


FIG 12 LONGITUDINAL CHARACTERISTICS UNDERWING CLUSTER 6 NAC X0 = 950 AND 1050  
 (A)MACH = .20

DATA SET SYMBL.	CONFIGURATION DESCRIPTION	NACA/L	ELEVON	BD/FLAP	SPOBRK	REFERENCE INFORMATION
(AD0017)	0462 82103	.000	.000	-12.000	.000	SREF 4.4119 SO.FT.
(AD0020)	0462 82103	.180	.000	-12.000	.000	LREF 19.2299 INCHES
(AD0001)	0462 82103		.000	-12.000	.000	BREF 37.9359 INCHES
						YMRP 43.5974 INCHES
						ZMRP .0000 INCHES
						ZMRP 15.1875 INCHES
						SCALE .0405

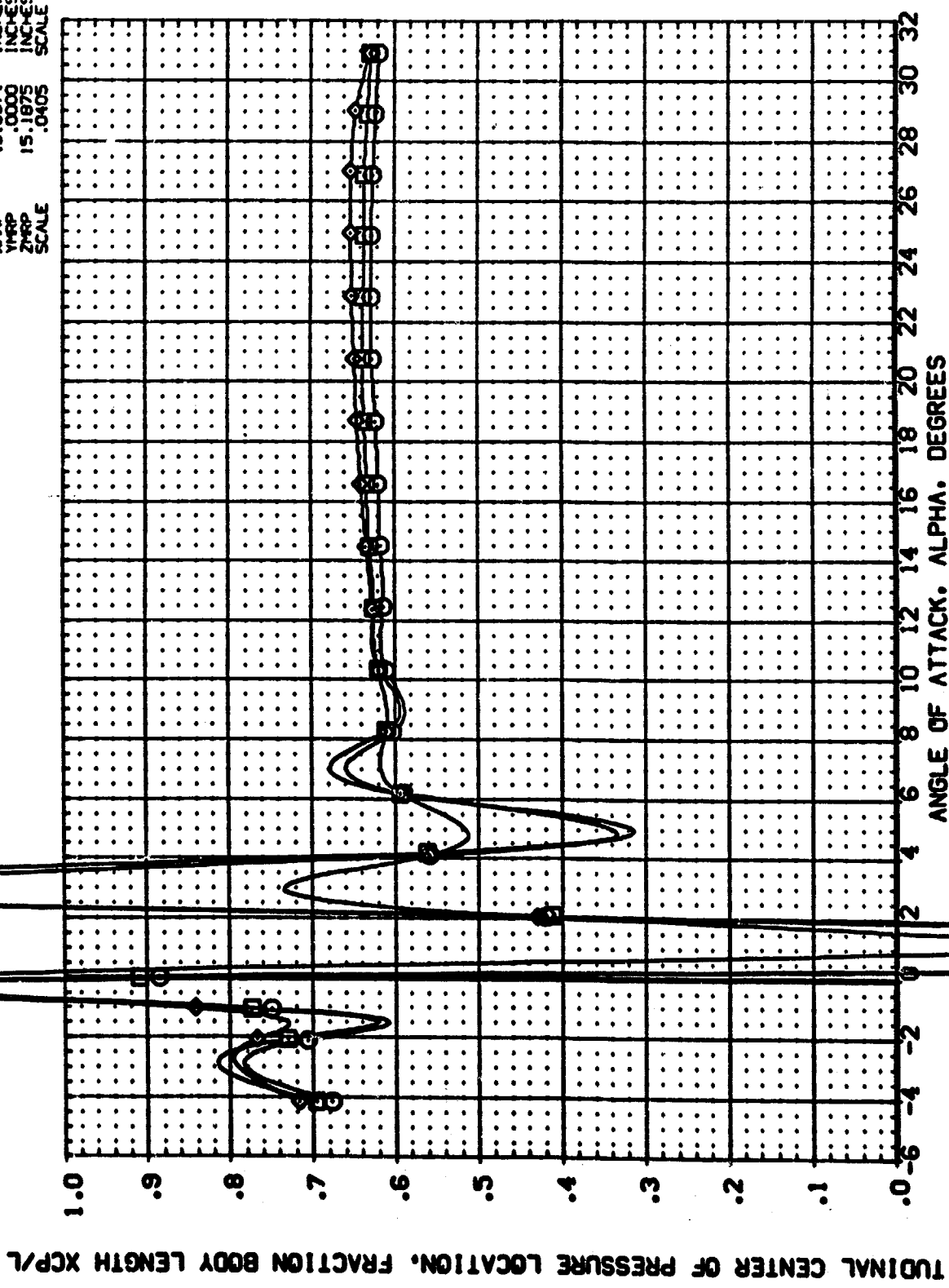


FIG 12 LONGITUDINAL CHARACTERISTICS UNDERWING CLUSTER 6 NAC X0 = 950 AND 1050

(M)MACH = .20

DATA SET SYMB.	CONFIGURATION DESCRIPTION	NACA/L	ELEVON	BD/FLAP	SPOBRK	REFERENCE INFORMATION
(AD0017)	0A62 B26C9 FB/43W116Z26V85X10	.000	.000	-12.000	.000	4.4119 SO.FT.
(AD0020)	0A62 B26C9 FB/43W116Z26V85X10	.480	.000	-12.000	.000	19.2299 INCHES
(AD0001)	0A62 B26C9 FB V116Z26V85X9		.000	-12.000	.000	37.9359 INCHES
						43.5974 INCHES
						15.1875 INCHES
						SCALE
						.0405

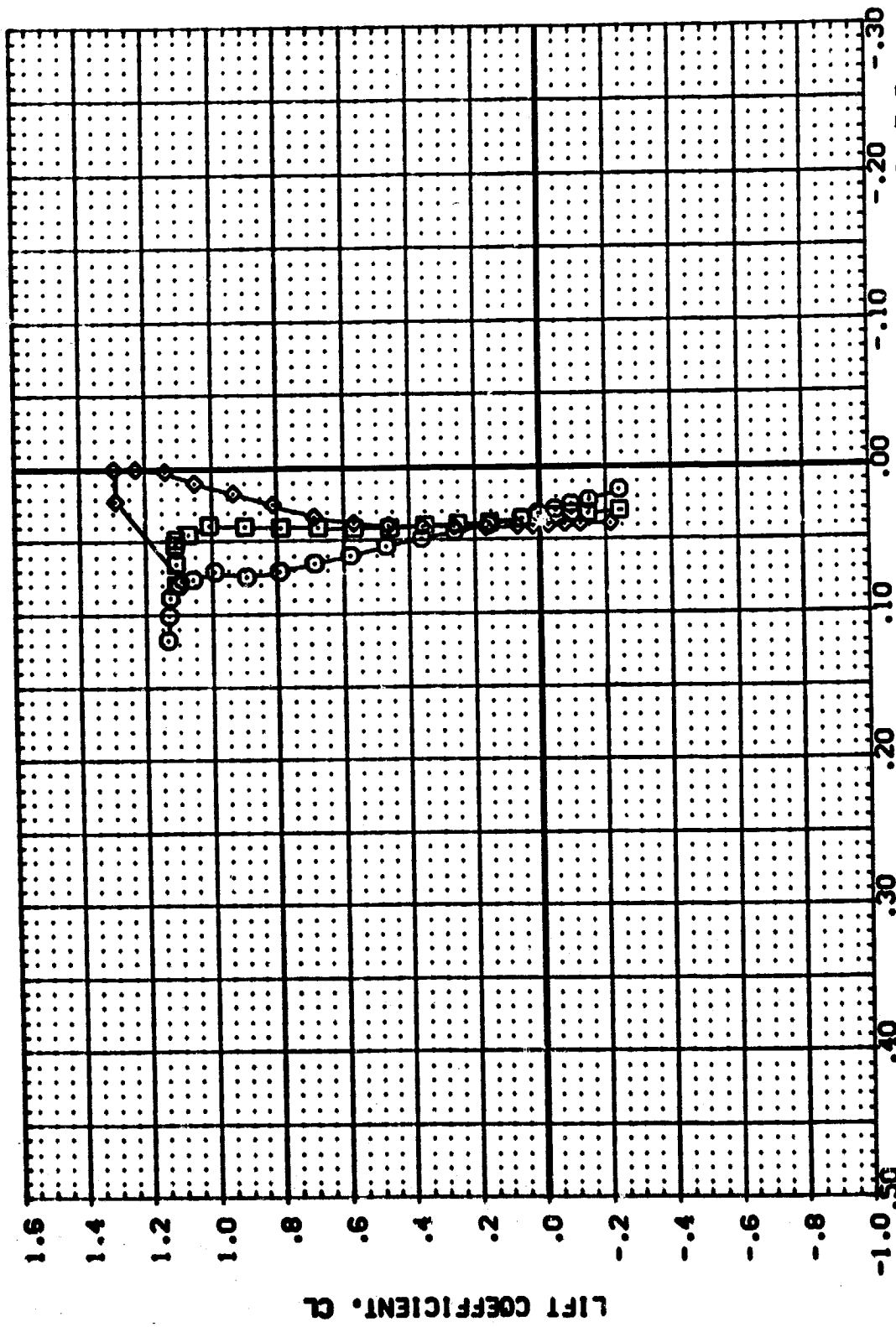
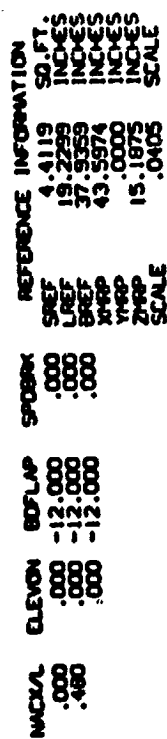


FIG 12 LONGITUDINAL CHARACTERISTICS UNDERWING CLUSTER 6 NAC X0 = 950 AND 1050  
 (A)MACH = .20  
 PITCHING MOMENT COEFFICIENT ABOUT FWD CG LIMIT (.65 LB). CLMFWD  
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DATA SET SYMBOL    CONFIGURATION DESCRIPTION  
 (ADV017)    0A52    826C9    FB143V116Z6V8S10  
 (ADV020)    0A52    826C9    FB143V116Z6V8S10  
 (ADV001)    0A52    826C9    FB    V116Z6V8S10

NACA/ELEVON    BD/FLAP    SP/BRK    REFERENCE INFORMATION  
 .000    .000    .000    SREF    4.419    SQ.FT.  
 .480    .000    .000    LREF    19.239    INCHES  
 .000    .000    .000    XREF    37.939    INCHES  
 .000    .000    .000    YREF    43.5974    INCHES  
 .000    .000    .000    ZREF    15.1875    INCHES  
 .000    .000    .000    SCALE    .0405    SCALE

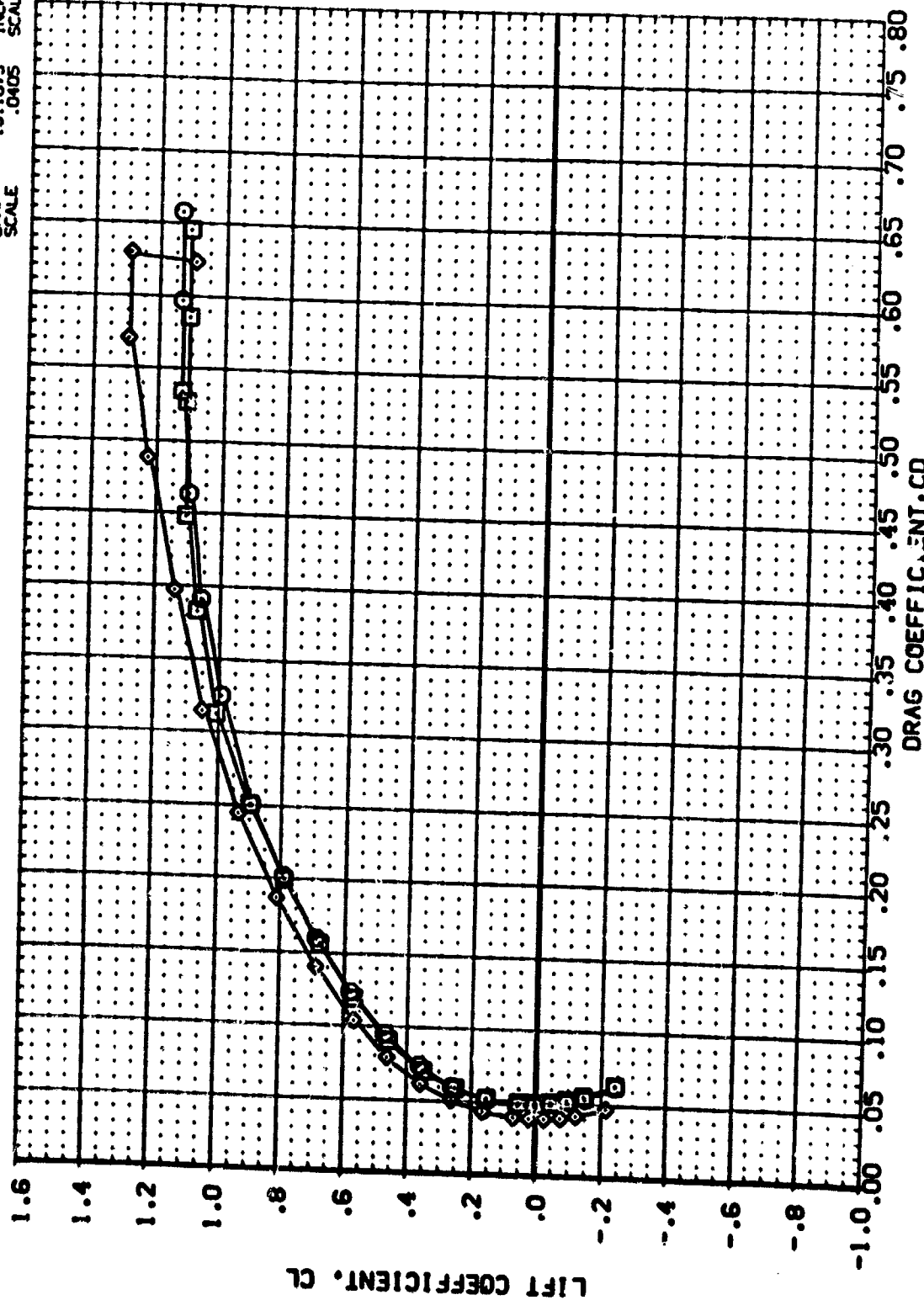


FIG 12 LONGITUDINAL CHARACTERISTICS UNDERWING CLUSTER 6 NAC X0 = 950 AND 1050  
 (A)MACH = .20

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		NACA/L		ELEVON		BOCLAP		SPORRK		REFERENCE INFORMATION	
(CDV017)	QAG2	B26C9	F8U43N116E26V8RSX10	.000	.000	-12.000	.000	SREF	4.4119	SO.FT.			
(CDV020)	QAG2	B26C9	F8U43N116E26V8RSX10	.480	.000	-12.000	.000	LREF	19.2299	INCHES			
(CDV001)	QAG2	B26C9	F8 V116E26V8RSX9		.000	-12.000	.000	BREF	37.9359	INCHES			
								XTRP	44.3813	INCHES			
								YTRP	15.0000	INCHES			
								ZTRP	15.1875	INCHES			
								SCALE	.0405	SCALE			

PITCHING MOMENT COEFFICIENT ABOUT AFT CG LIMIT (.675 LB). CLMAFT

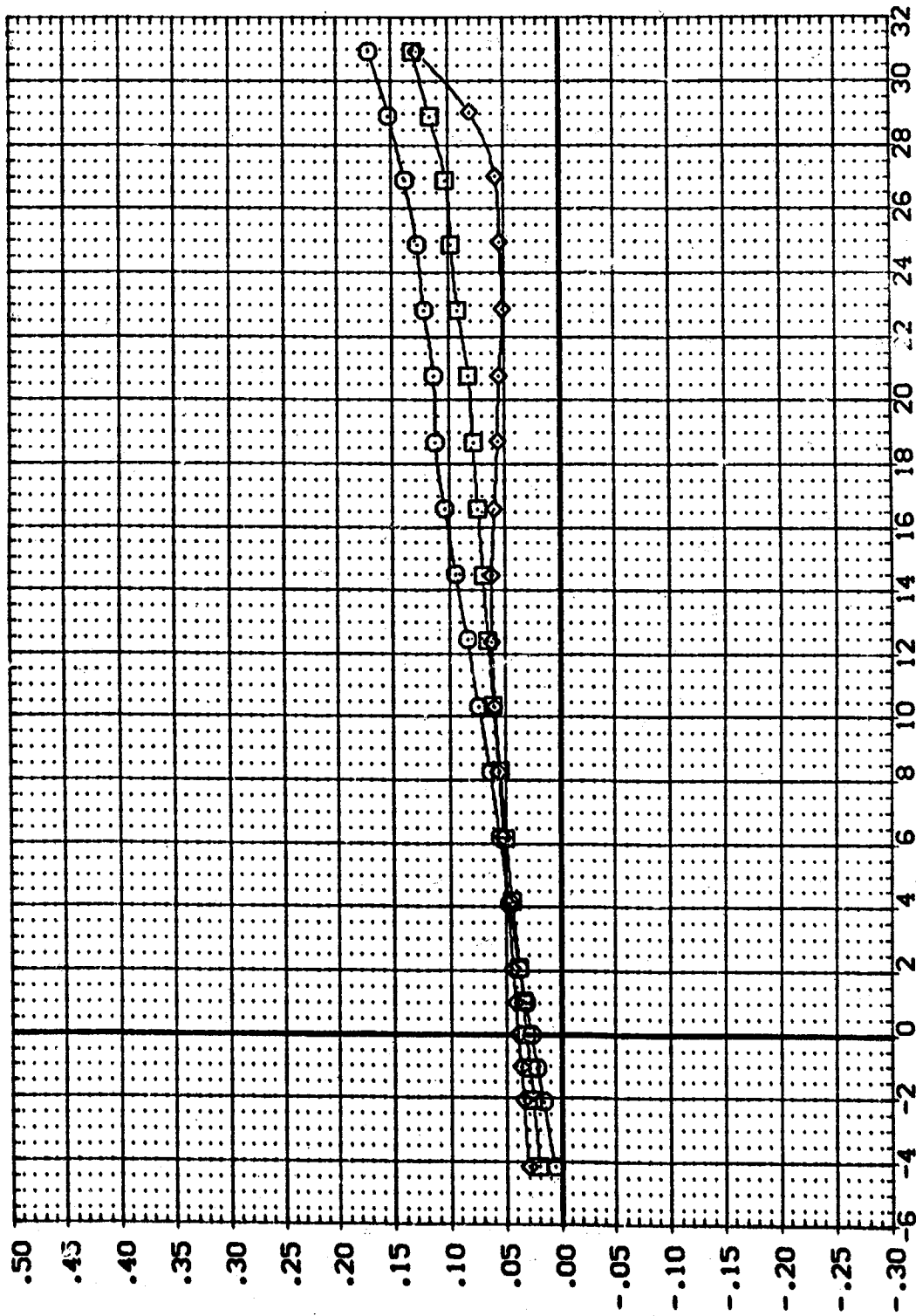


FIG 12 LONGITUDINAL CHARACTERISTICS UNDERWING CLUSTER 6 NAC X0 = 950 AND 1050

(A)MACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	NACA/L	SPOBRK	RUDER	REFERENCE INFORMATION
(RDV018)	DA62 B26C9 FB43V116E26V8R5X10	.000	.000	.000	.000	SREF 4.4119 SO.FT.
(RDV019)	DA62 B26C9 FB43V116E26V8R5X10	10.000	.000	.000	.000	LREF 19.2299 INCHES
(RDV021)	DA62 B26C9 FB43V116E26V8R5X10	10.000	.480	.000	.000	BREF 37.9359 INCHES
(RDV022)	DA62 B26C9 FB43V116E26V8R5X10	10.000	.480	.000	.000	XTRP 43.5974 INCHES
(RDV002)	DA62 B26C9 FB V116E26V8R5X9	10.000	.000	.000	.000	YTRP 15.1875 INCHES
(RDV004)	DA62 B26C9 FB V116E26V8R5X9	10.000	.000	.000	.000	ZTRP .0405 SCALE

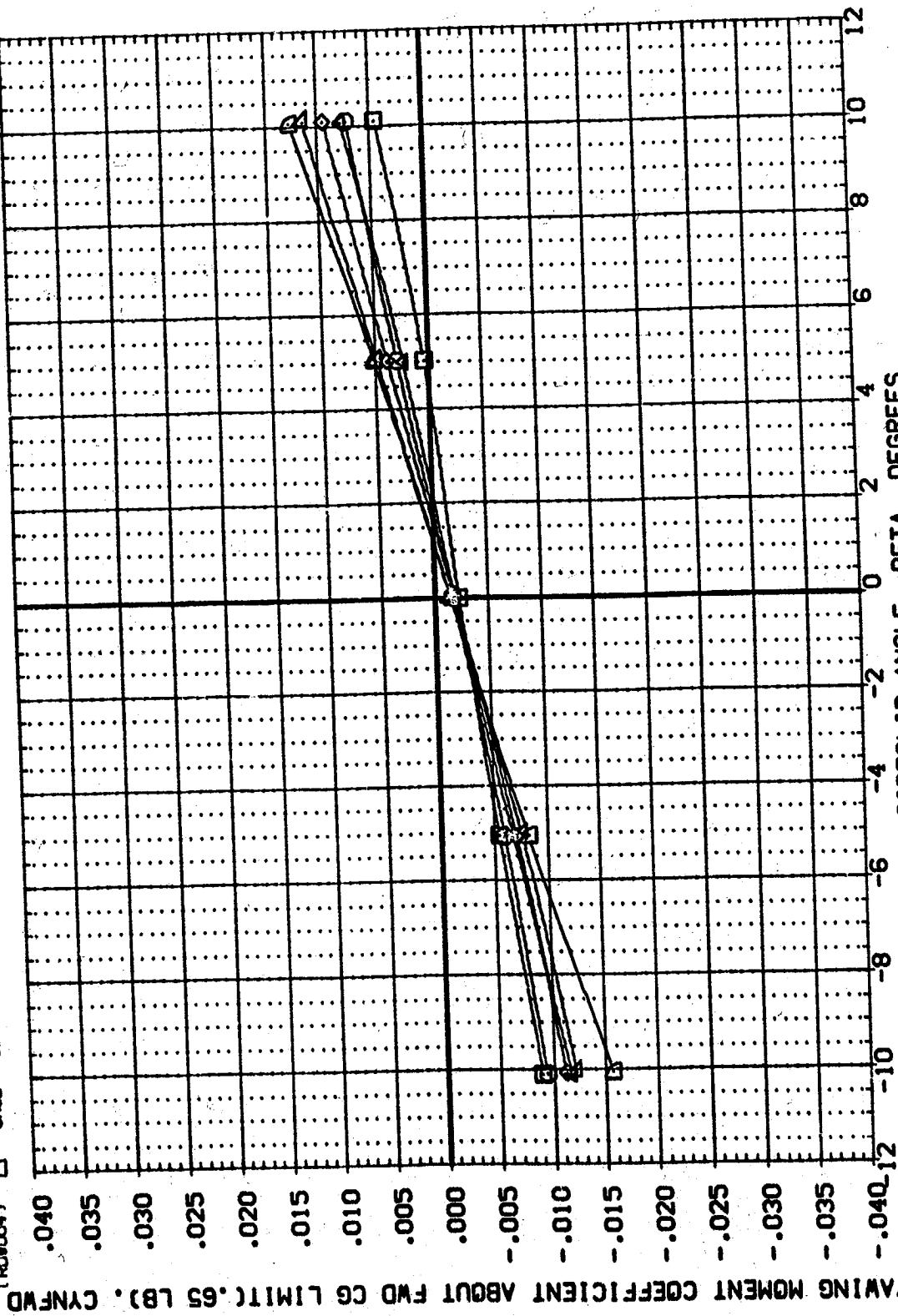


FIG 13 LATERAL - DIRECTIONAL CHAR UNDERWING CLUSTER 6 NAC X0 = 950 AND 1050  
(A)MACH = .20 PAGE 80



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	NACA/L	SPDRK	FLUDR	REFERENCE INFORMATION
(ROW018)	DAG2 B26C9 FB/43W11GE26V85X10	.000	.000	.000	.000	SREF 4.4119 SO.FT.
(ROW019)	DAG2 B26C9 FB/43W11GE26V85X10	10.000	.000	.000	.000	LREF 19.2299 INCHES
(ROW021)	DAG2 B26C9 FB/43W11GE26V85X10	.480	.480	.000	.000	BREF 37.5359 INCHES
(ROW022)	DAG2 B26C9 FB/43W11GE26V85X10	.480	.480	.000	.000	XREF 43.5574 INCHES
(ROW002)	DAG2 B26C9 FB V11GE26V85X9	.000	.000	.000	.000	YREF .0000 INCHES
(ROW004)	DAG2 B26C9 FB V11GE26V85X9	10.000	.000	.000	.000	ZREF 15.1875 INCHES
						SCALE .0405

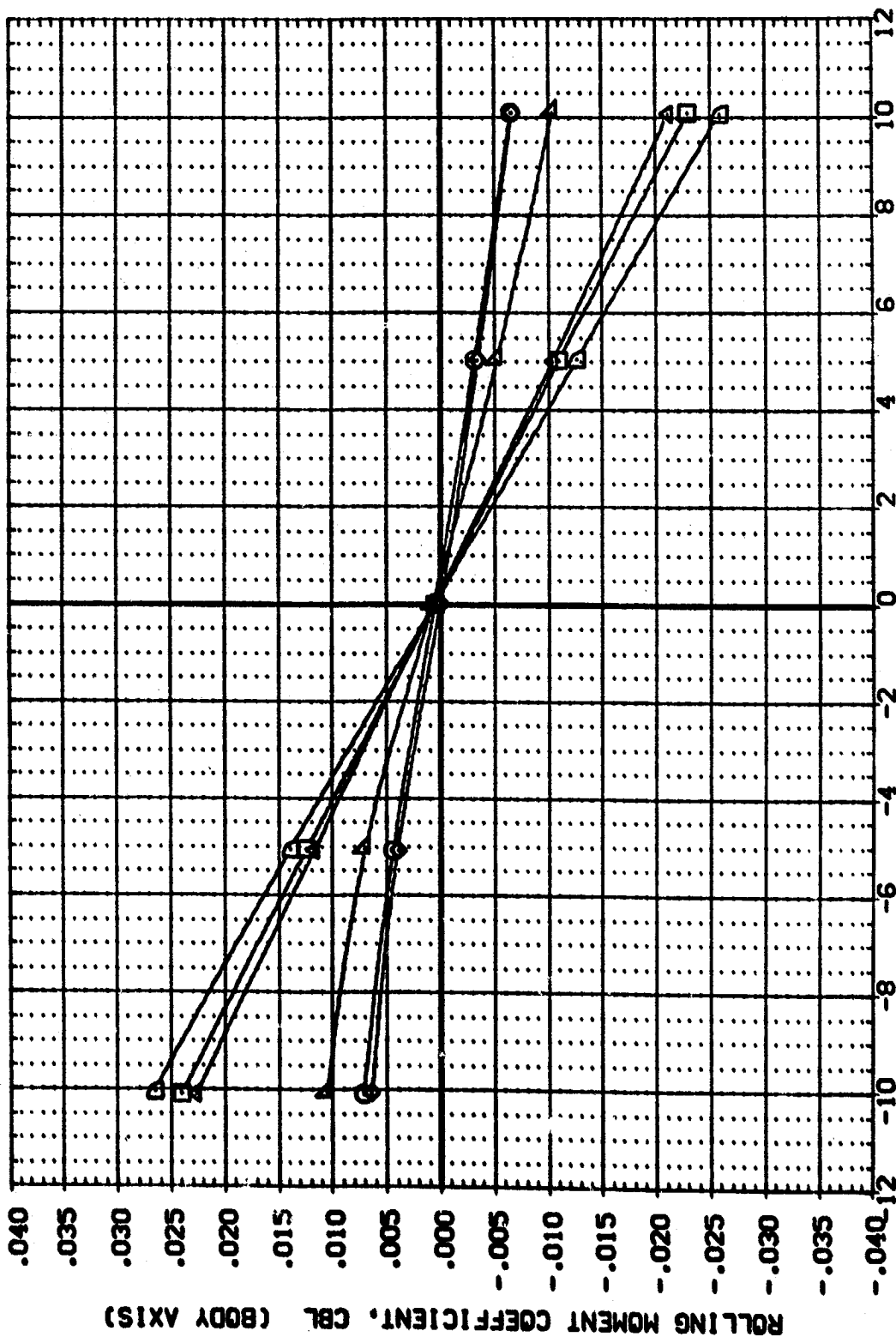


FIG 13 LATERAL - DIRECTIONAL CHAR UNDERWING CLUSTER 6 NAC X0 = 950 ANO 1050

(A)MACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	NACA/L	SPOBRK	RUDDER	REFERENCE INFORMATION
(RDM018)	DA62 B26C9 FB43V116E26VBR5X10	.000	.000	.000	.000	SREF 4.4119 50.FT.
(RDM019)	DA62 B26C9 FB43V116E26VBR5X10	10.000	.000	.000	.000	LREF 19.2298 INCHES
(RDM021)	DA62 B26C9 FB43V116E26VBR5X10	.000	.480	.000	.000	BREF 37.5574 INCHES
(RDM022)	DA62 B26C9 FB43V116E26VBR5X10	10.000	.000	.000	.000	XMRP .0000 INCHES
(RDM023)	DA62 B26C9 FB V116E26VBR5X9	.000	.000	.000	.000	YMRP 15.1875 INCHES
(RDM004)	DA62 B26C9 FB V116E26VBR5X9	10.000	.000	.000	.000	SCALE .0405 SCALE

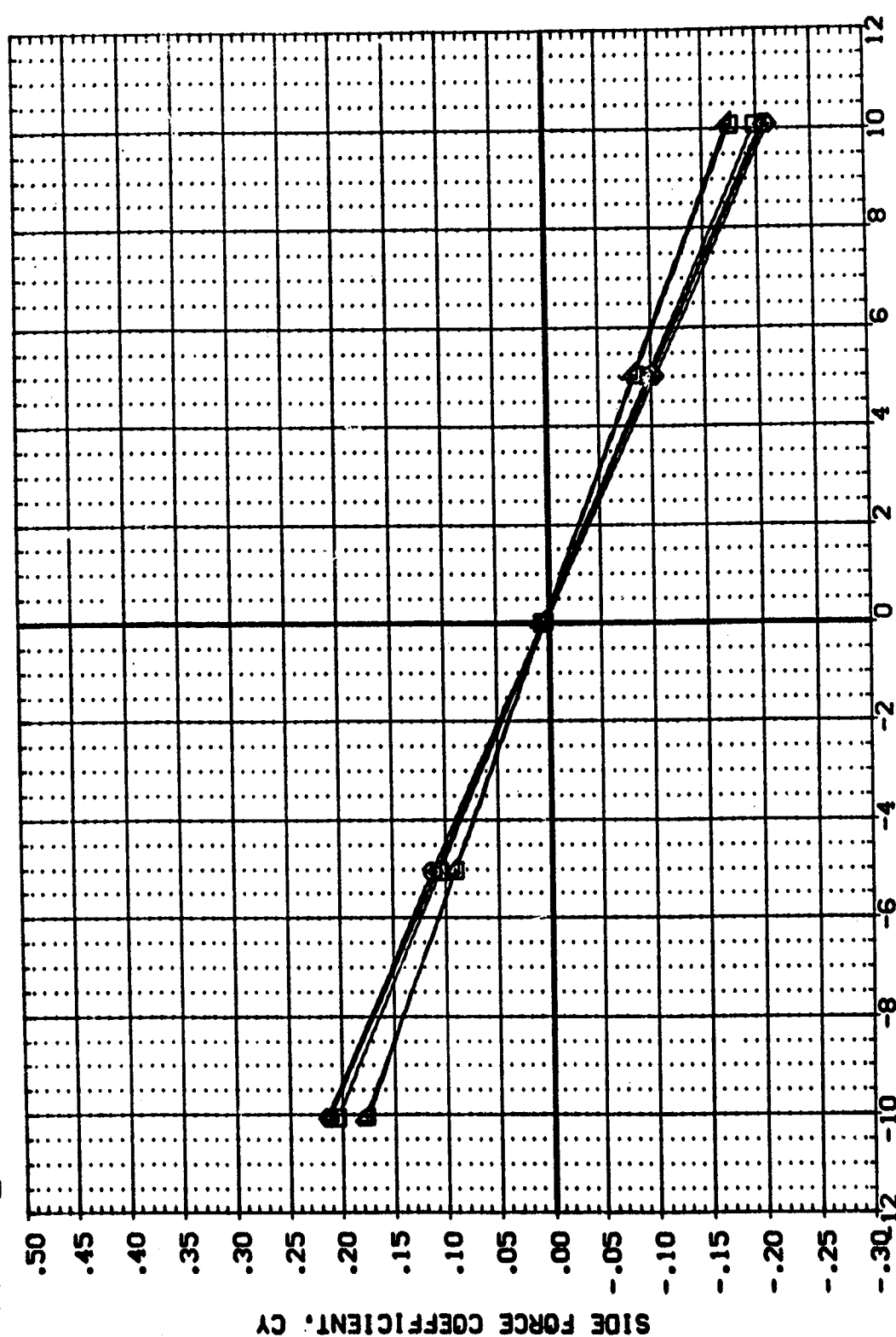


FIG 13 LATERAL - DIRECTIONAL CHAR UNDERWING CLUSTER 6 NAC X0 = 950 AND 1050  
(A)MACH = .20



DATA SET SYMBOL: (EDW018), (EDW021), (EDW002)  
CONFIGURATION DESCRIPTION: DAE2 B26C9, DAE2 B26C9, F8 V116E26V85X10, F8 V116E26V85X10  
NACVAL: .000, .480  
ELEVON: .000, .000, .000  
BDFLAP: -12.000, -12.000, -12.000  
SPDRK: .000, .000, .000  
REFERENCE INFORMATION: SREF 4.4119 50.FT., LREF 19.2259 INCHES, BREF 37.9359 INCHES, XPRP 43.5974 INCHES, YPRP .0000 INCHES, ZPRP 15.1875 INCHES, SCALE .0405

YAWING MOMENT COEFFICIENT DERIVATIVE WITH BETA, CYNBET, PER DEGREE

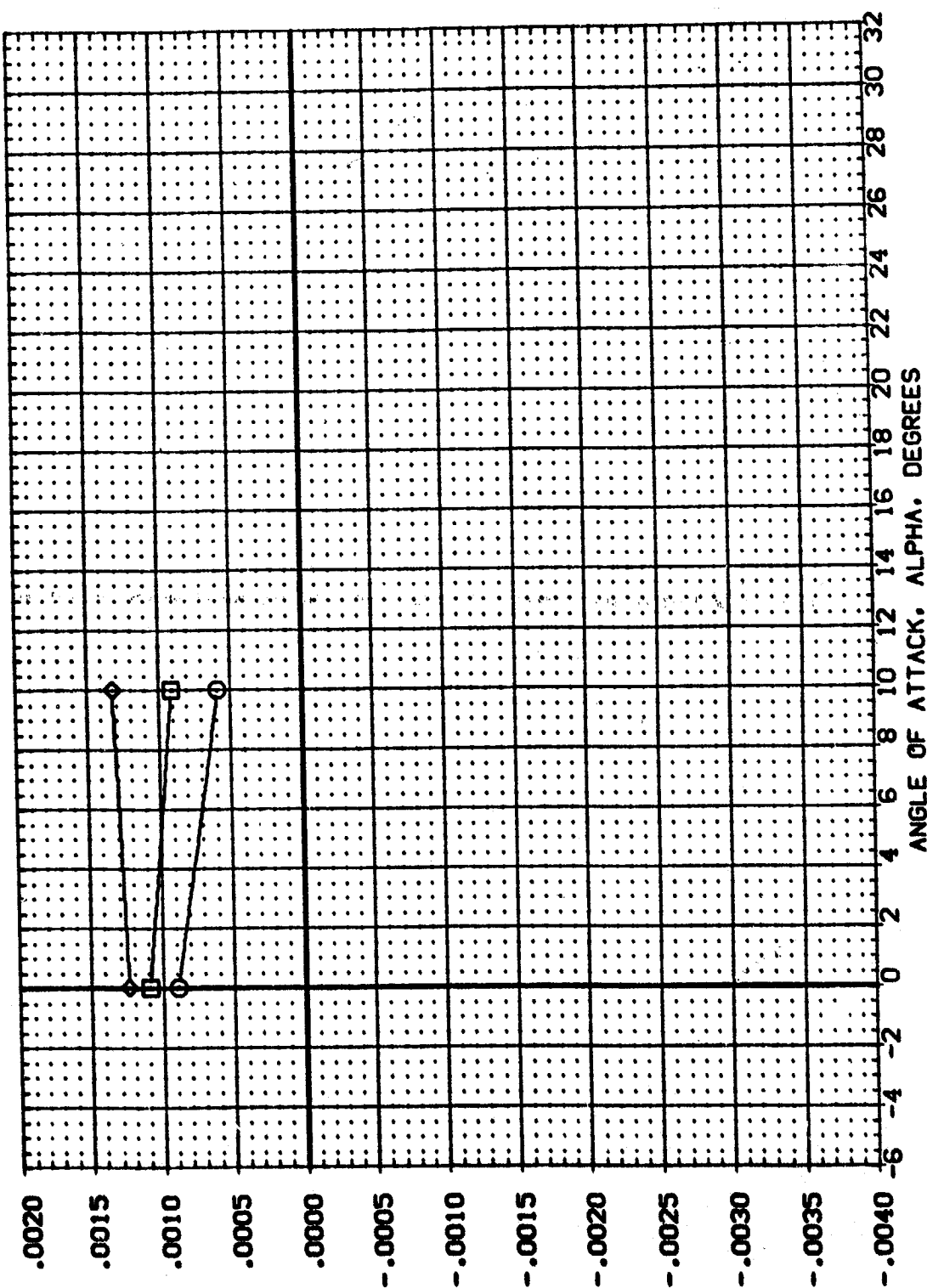


FIG 13 LATERAL - DIRECTIONAL CHAR UNDERWING CLUSTER 6 NAC X0 = 950 AND 1050

DATA SET SYMBOL  
(EDW018)  
(EDW021)  
(EDW002)

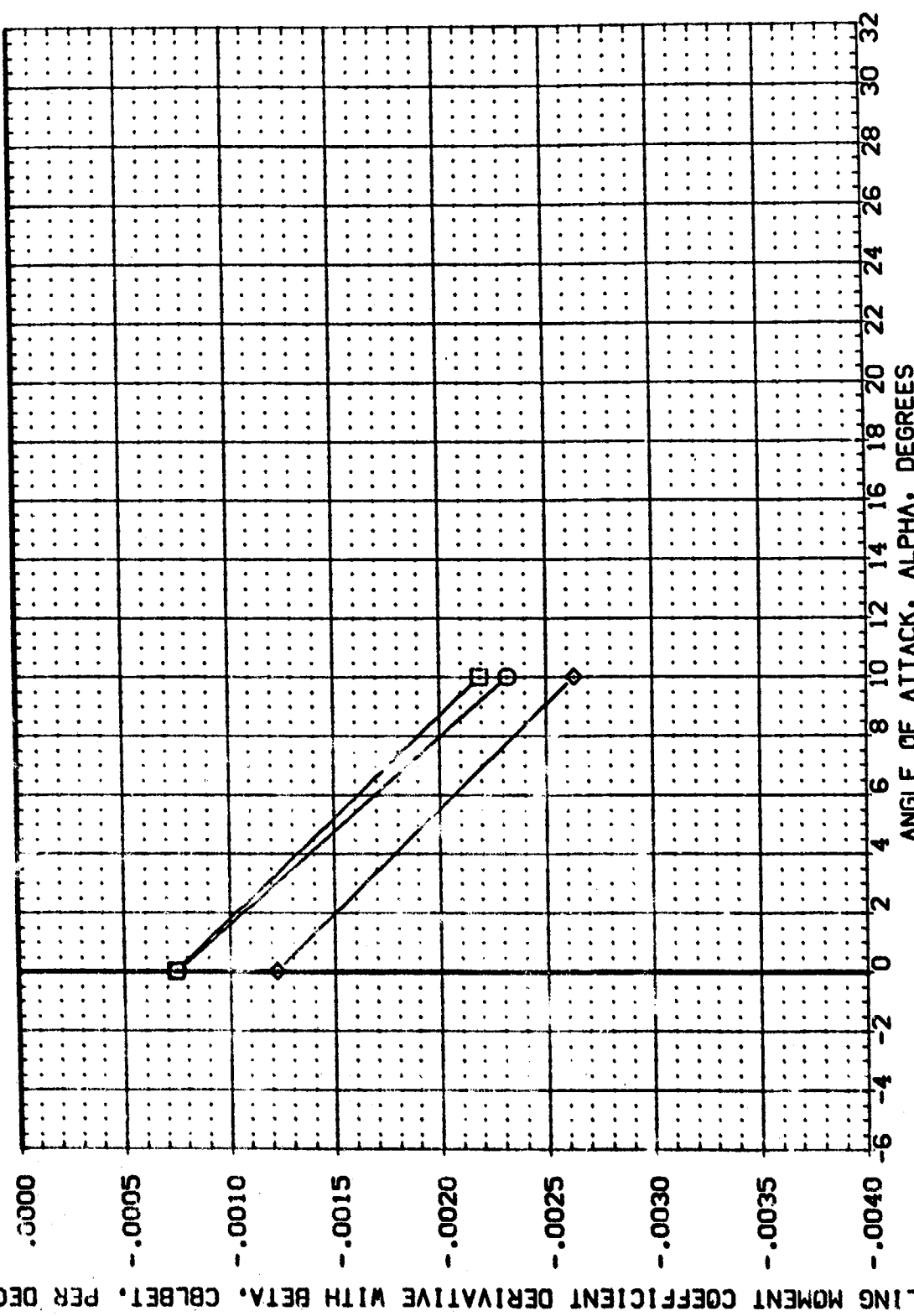
CONFIGURATION DESCRIPTION  
FB/43V116E26V85X10  
FB/43V116E26V85X10  
FB V116E26V85X9

MAC/L  
.000  
.480

ELEVON  
.000  
.000  
.000

BOFLAP  
-12.000  
-12.000  
-12.000

SPDRK  
.000  
.000  
.000



ROLLING MOMENT COEFFICIENT DERIVATIVE WITH BETA, CBLBET, PER DEGREE

FIG 13 LATERAL - DIRECTIONAL CHAR UNDERWING CLUSTER 6 NAC X0 = 950 AND 1050

SIDE FORCE COEFFICIENT DERIVATIVE WITH BETA, CYBETA, PER DEGREE

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NACX/L	ELEVON	BDFLAP	SPOBRK	REFERENCE INFORMATION
(EDVC18)	0A62 B26C9 FB43V116E26V8FSX10	.000	.000	-12.000	.000	SREF 4.4119 50.FT.
(EDVC21)	0A62 B26C9 FB43V116E26V8FSX10	.480	.000	-12.000	.000	LREF 19.2258 INCHES
(EDVC02)	0A62 B26C9 FB V116E26V8FSX9		.000	-12.000	.000	BREF 37.9359 INCHES
						XMRP 43.5974 INCHES
						YMRP .0000 INCHES
						ZMRP 15.1875 INCHES
						SCALE .0405

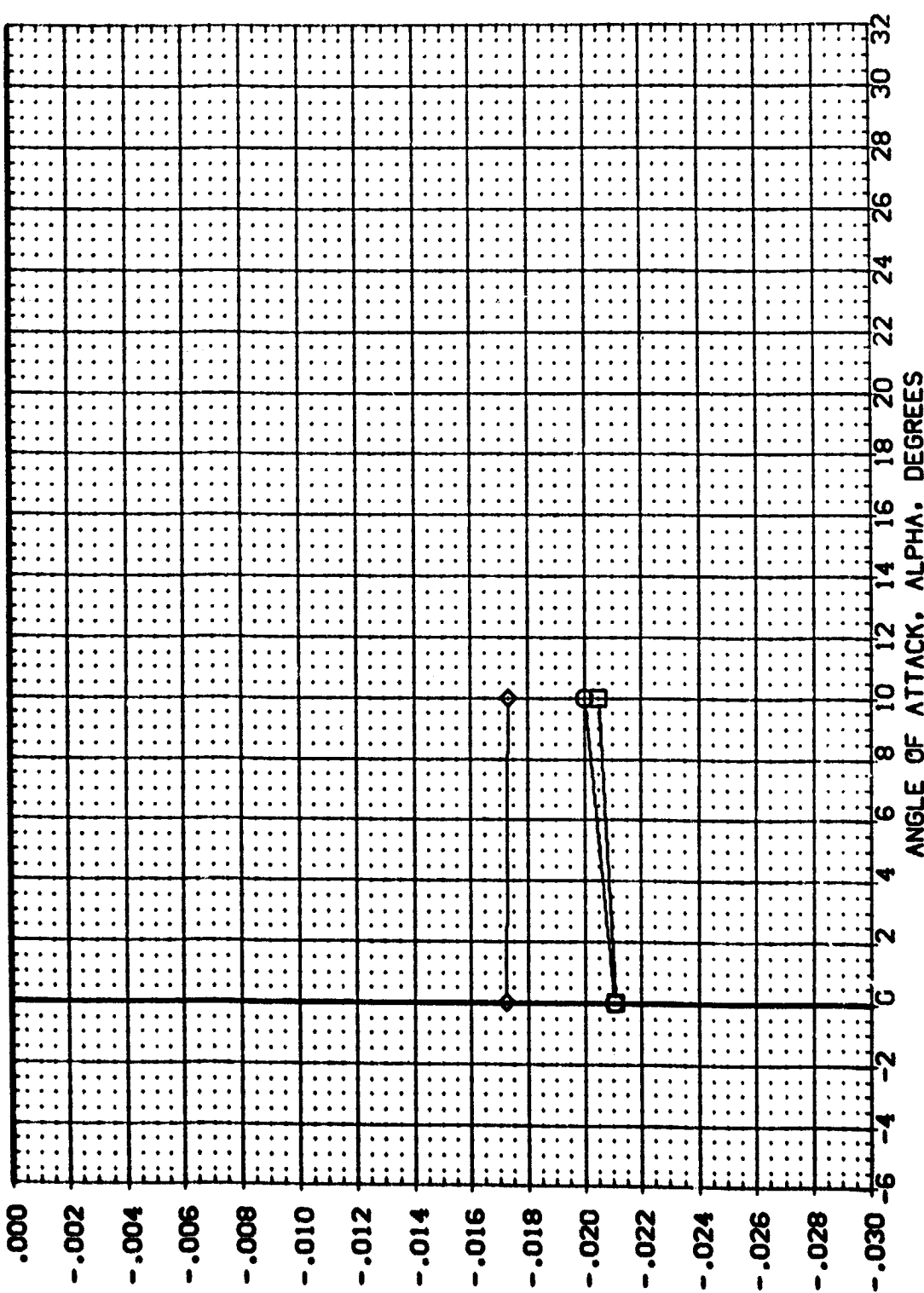


FIG 13 LATERAL - DIRECTIONAL CHAR UNDERWING CLUSTER 6 NAC X0 = 950 AND 1050

# DATA SET SYMBOL CONFIGURATION DESCRIPTION

(ADV026) FB44V116E26V8R5X10  
(ADV023) FB44V116E26V8R5X10  
(ADV001) FB V116E26V8R5X9

0A62 B26C9  
0A62 B26C9  
0A62 B26C9



NACX/L ELEVON BDFLAP SPOBRK  
.000 .000 -12.000 .000  
.480 .000 -12.000 .000

REFERENCE INFORMATION  
SREF 4.4119 50. FT.  
LREF 19.2289 INCHES  
BREF 37.9359 INCHES  
XVRP 43.5974 INCHES  
YVRP 10.000 INCHES  
ZVRP 15.1875 INCHES  
SCALE .0405

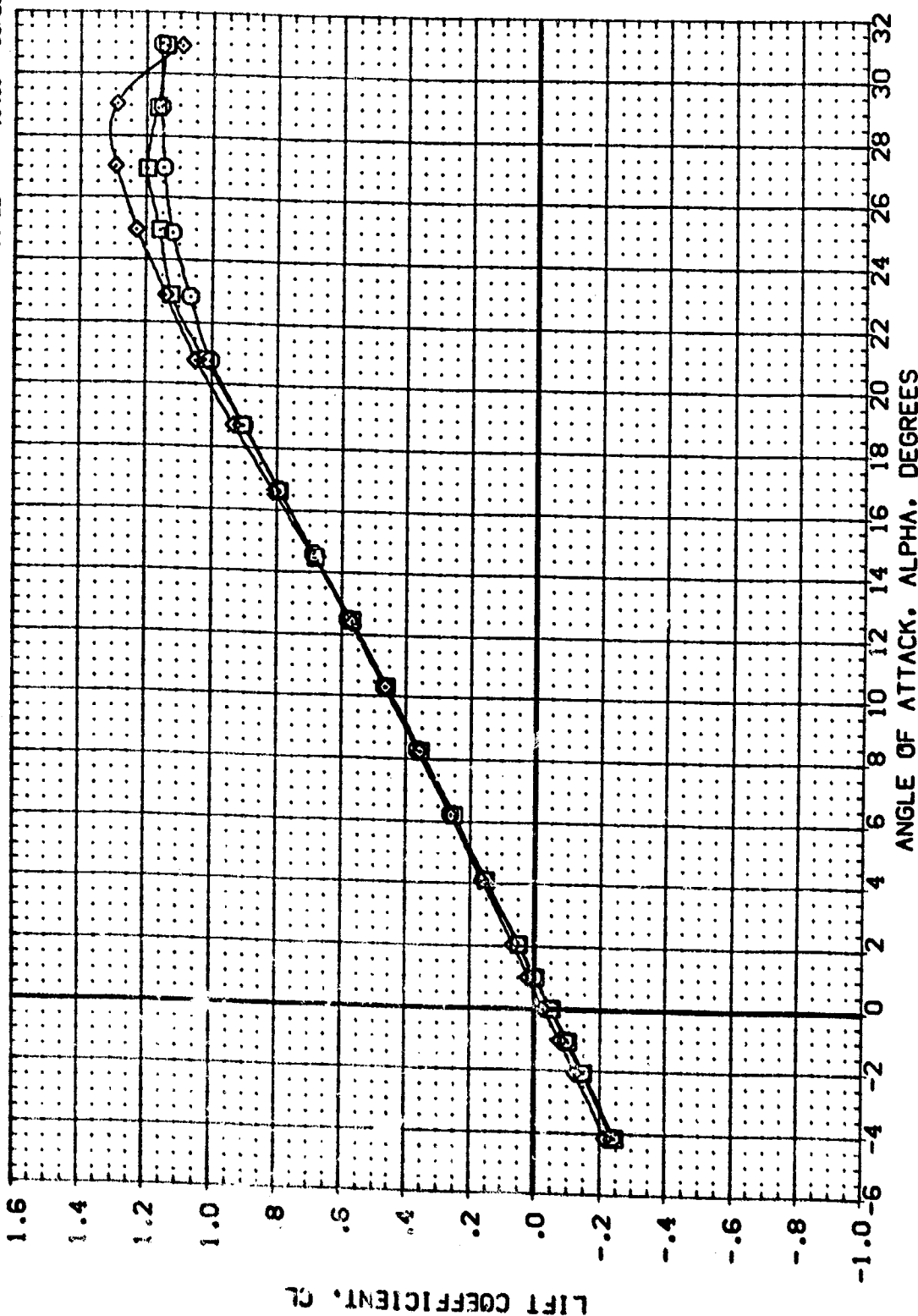


FIG 14 LONGITUDINAL CHAR LONG PYLON UNDERWING CLUSTER 6 NAC X0 = 950 AND 1050  
(A)MACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NACA/L	ELEVON	BO/LAP	SPDRK	REFERENCE INFORMATION
(ADVO26)	QAS2 B26C9	.000	.000	-12.000	.000	SREF 4.4119 SO.FT.
(ADVO23)	QAS2 B26C9	.480	.000	-12.000	.000	LREF 19.2299 INCHES
(ADVO01)	QAS2 B26C9		.000	-12.000	.000	BREF 37.9359 INCHES
	F8 V116E26V8RSX9					XMRP 43.5974 INCHES
						YMRP .0000 INCHES
						ZMRP 15.1875 INCHES
						SCALE .0405

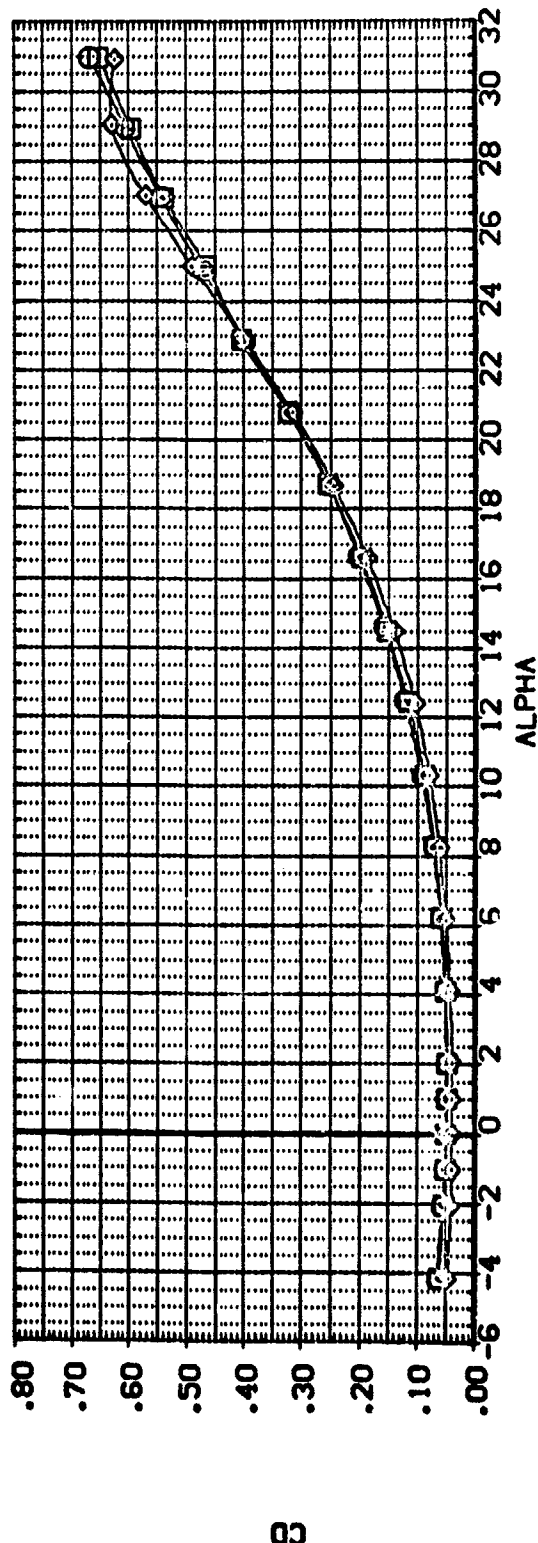
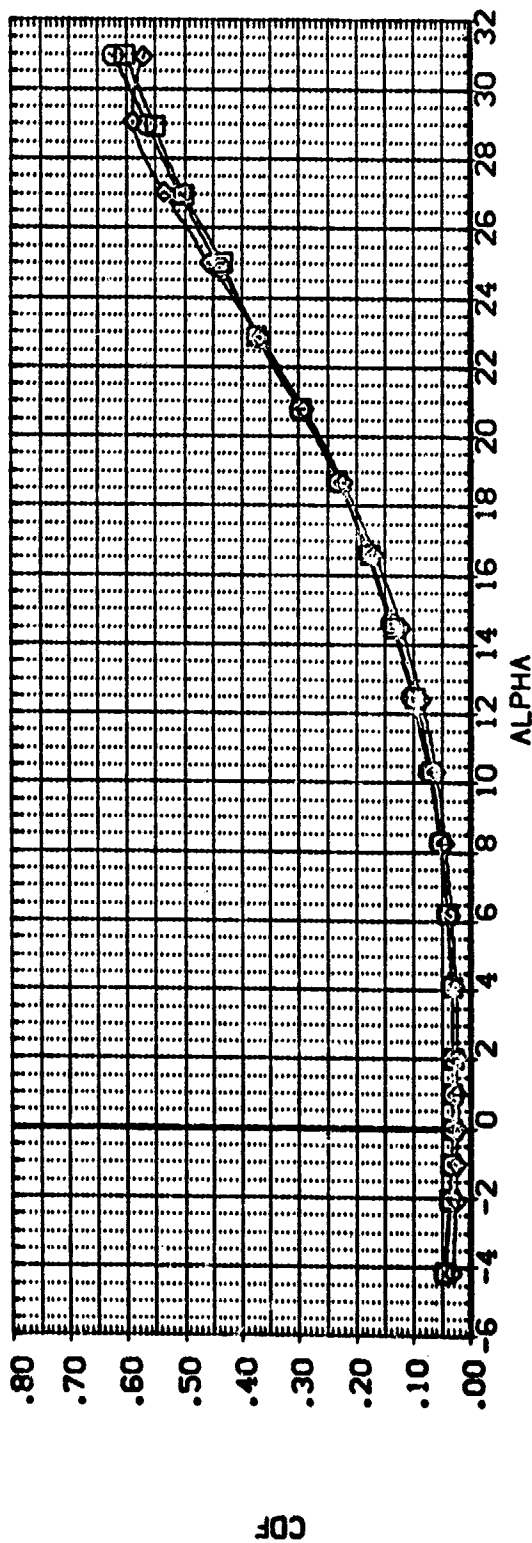


FIG 14 LONGITUDINAL CHAR LONG PYLON UNDERWING CLUSTER 6 NAC X0 = 950 AND 1050  
(A)MACH = .20

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		REFERENCE INFORMATION	
(ADV026)	0A62 B26C9	F8J44V116E26V8F5X10	SREF	4.4119	50. FT.
(ADV023)	0A62 B26C9	F8J44V116E26V8F5X10	LREF	19.2299	INCHES
(ADV001)	0A62 B26C9	F8 V116E26V8F5X9	BREF	37.9359	INCHES
			YMRP	43.5974	INCHES
			ZMRP	.0000	INCHES
			SCALE	15.1875	INCHES
				.0405	SCALE

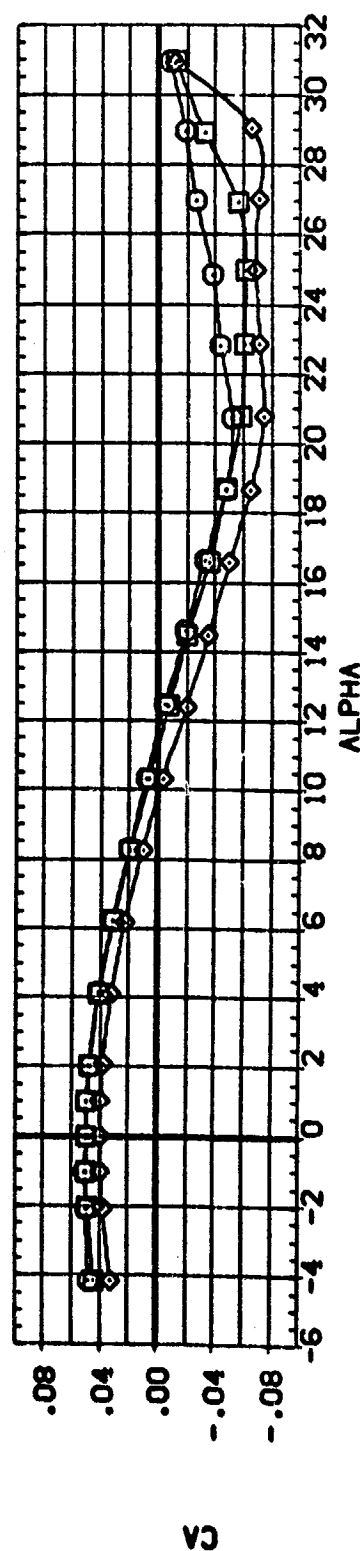
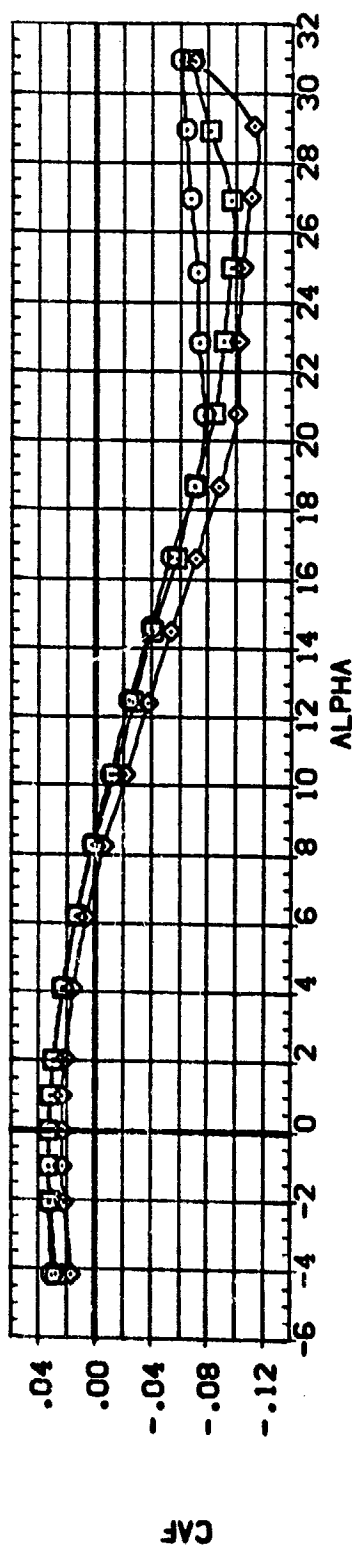
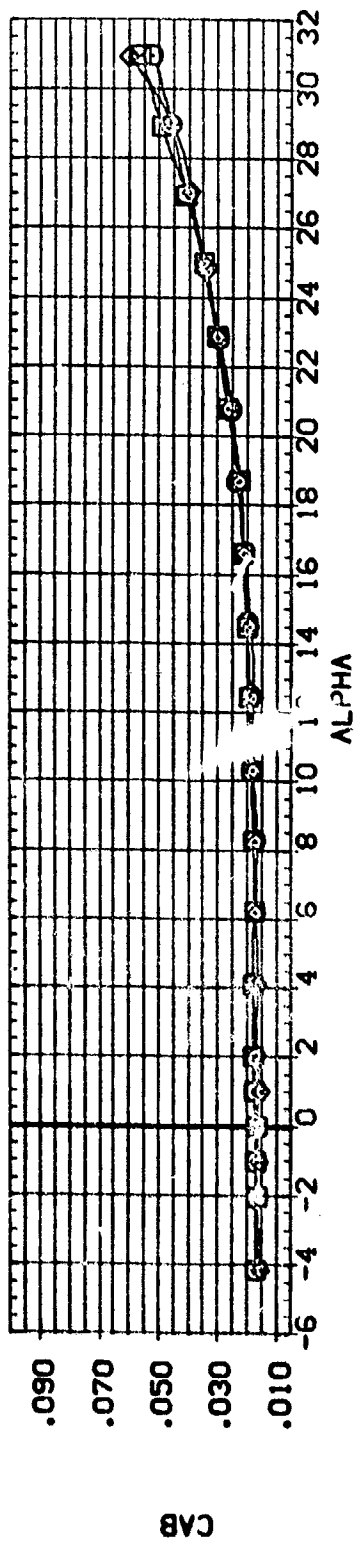


FIG 14 LONGITUDINAL CHAR LONG PYLON UNDERWING CLUSTER 6 NAC X0 = 950 AND 1050  
 (A)MACH = .20



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NACA	ELEVON	BOXFLAP	SPOILER	REFERENCE INFORMATION
(AD0026)	0A62 826C9 FB44V11E26V85X110	.000	.000	-12.000	.000	SREF 4.4119 50. FT.
(AD0023)	0A62 826C9 FB44V11E26V85X110	.480	.000	-12.000	.000	LREF 19.2259 INCHES
(AD0001)	FB V11E26V85X110		.000	-12.000	.000	BREF 37.9359 INCHES
						YARP 43.5974 INCHES
						ZARP 15.1875 INCHES
						SCALE .0405

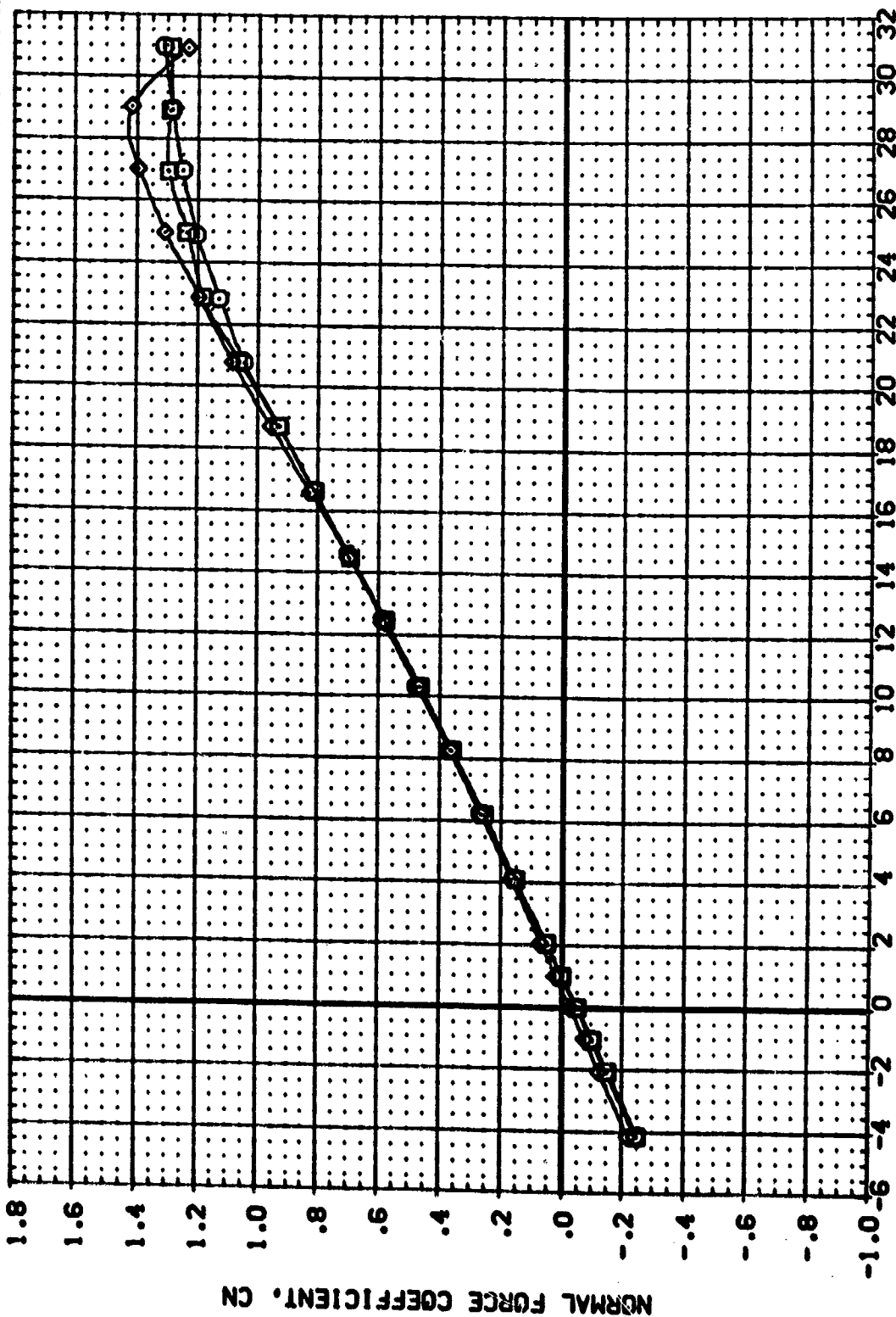


FIG 14 LONGITUDINAL CHAR LONG PYLON UNDERWING CLUSTER 6 NAC X0 = 950 AND 1050  
 (M)MACH = .20

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(ADW026)	0A52	B26C9	F8J44V116E26V8K5X10
(ADW023)	0A52	B26C9	F8J44V116E26V8K5X10
(ADW001)	0A52	B26C9	F8 V116E26V8K5X9

NACA/L ELEVON BOFLAP SPOBRK

.000	.000	.000	.000
.480	.000	-12.000	.000
	.000	-12.000	.000

REFERENCE INFORMATION

SREF	4.4119	SO.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	15.1875	INCHES
SCALE	.0405	SCALE

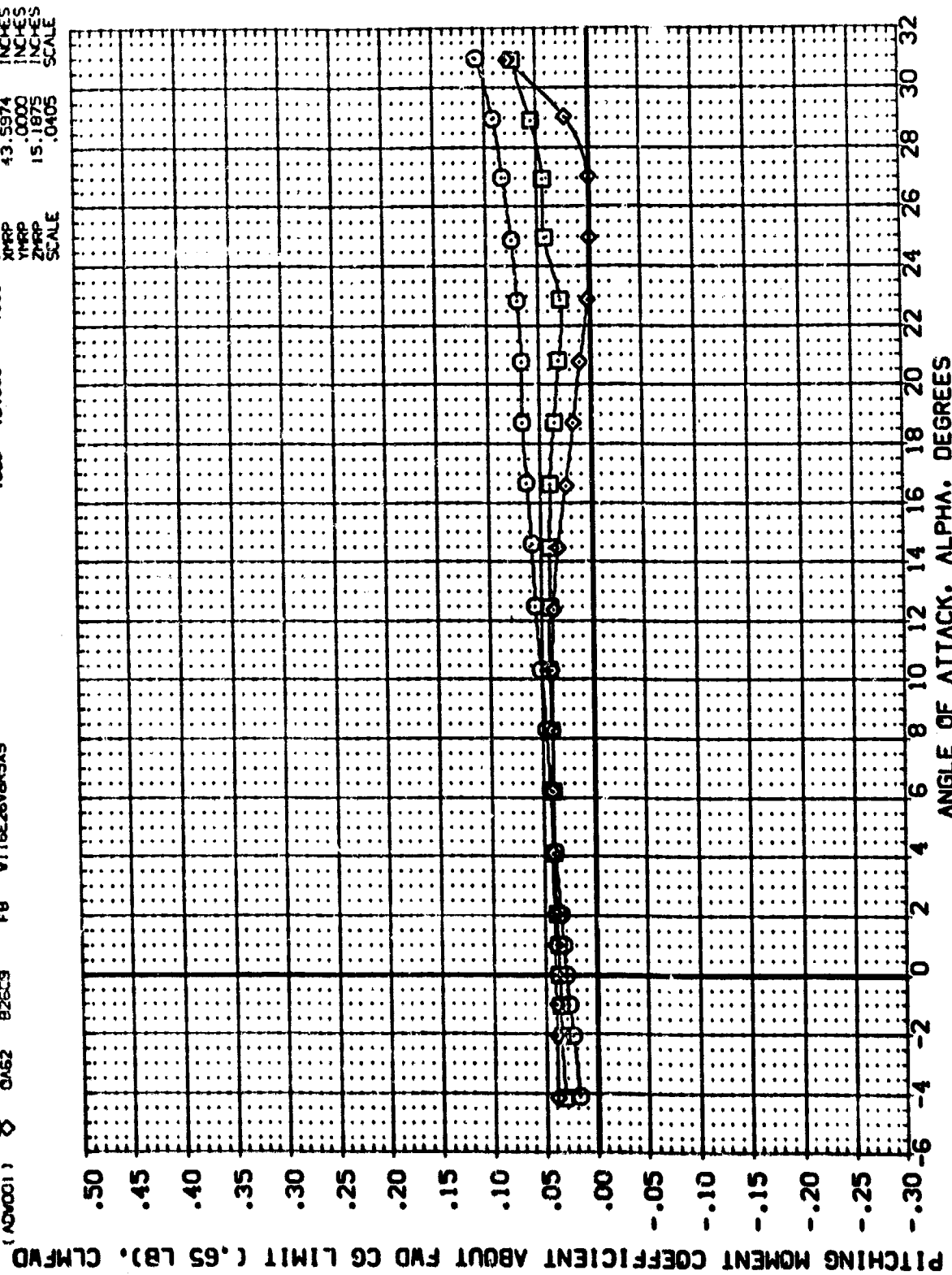


FIG 14 LONGITUDINAL CHAR LONG PYLON UNDERWING CLUSTER 6 NAC X0 = 950 AND 1050  
(A)MACH = .20

	INACIA/L	ELEVON	BDFLAP	SPOBOK	REFERENCE INFORMATION	
	.000	.000	-12.000	.000	SREF	4.4119 SO.FT.
	.480	.000	-12.000	.000	LREF	19.2769 INCHES
		.000	-12.000	.000	SREF	37.9359 INCHES
					XPRP	43.5574 INCHES
					YPRP	.0000 INCHES
					ZPRP	15.1875 INCHES
					SCALE	.0405 SCALE

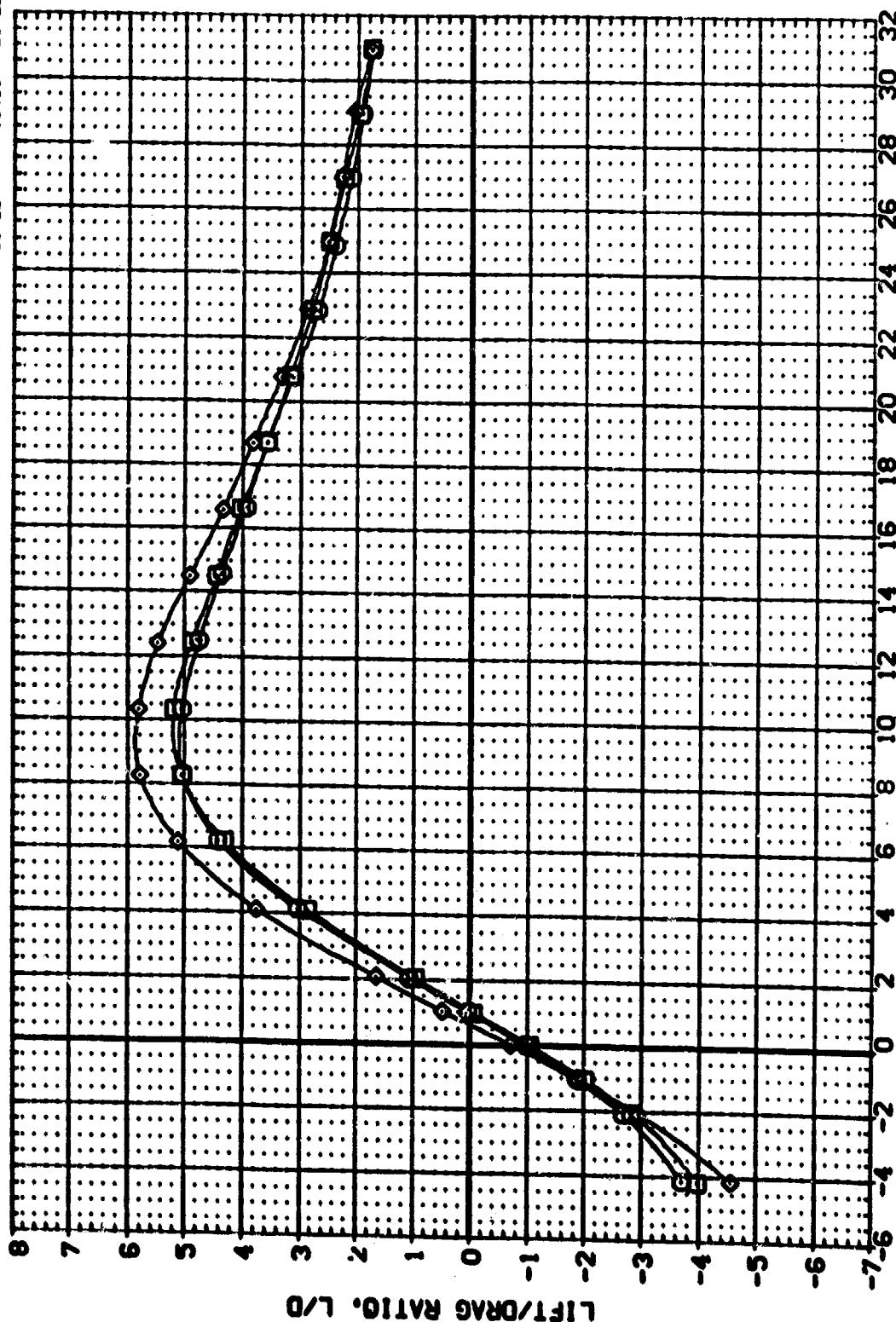


FIG 14 LONGITUDINAL CHAR LONG PYLON UNDERWING CLUSTER 6 NAC X0 = 950 AND 1050  
(A)MACH = .20 PAGE 91

LONGITUDINAL CENTER OF PRESSURE LOCATION, FRACTION BODY LENGTH XCP/L

DATA SET SYMBOL  
(ADV036)  
(ADV033)  
(ADV001)

CONFIGURATION DESCRIPTION  
FB 14-4119  
FB 14-4119  
FB 14-4119

NACA/ELEVON  
.000  
.480

BOFLAP  
-12.000  
-12.000

SPDRK  
.000  
.000  
.000

REFERENCE INFORMATION  
SREF 4.4119 SO.FT.  
LREF 19.2299 INCHES  
BREF 37.9359 INCHES  
XMRP 43.5974 INCHES  
YMRP .0000 INCHES  
ZMRP 15.1875 INCHES  
SCALE .0405

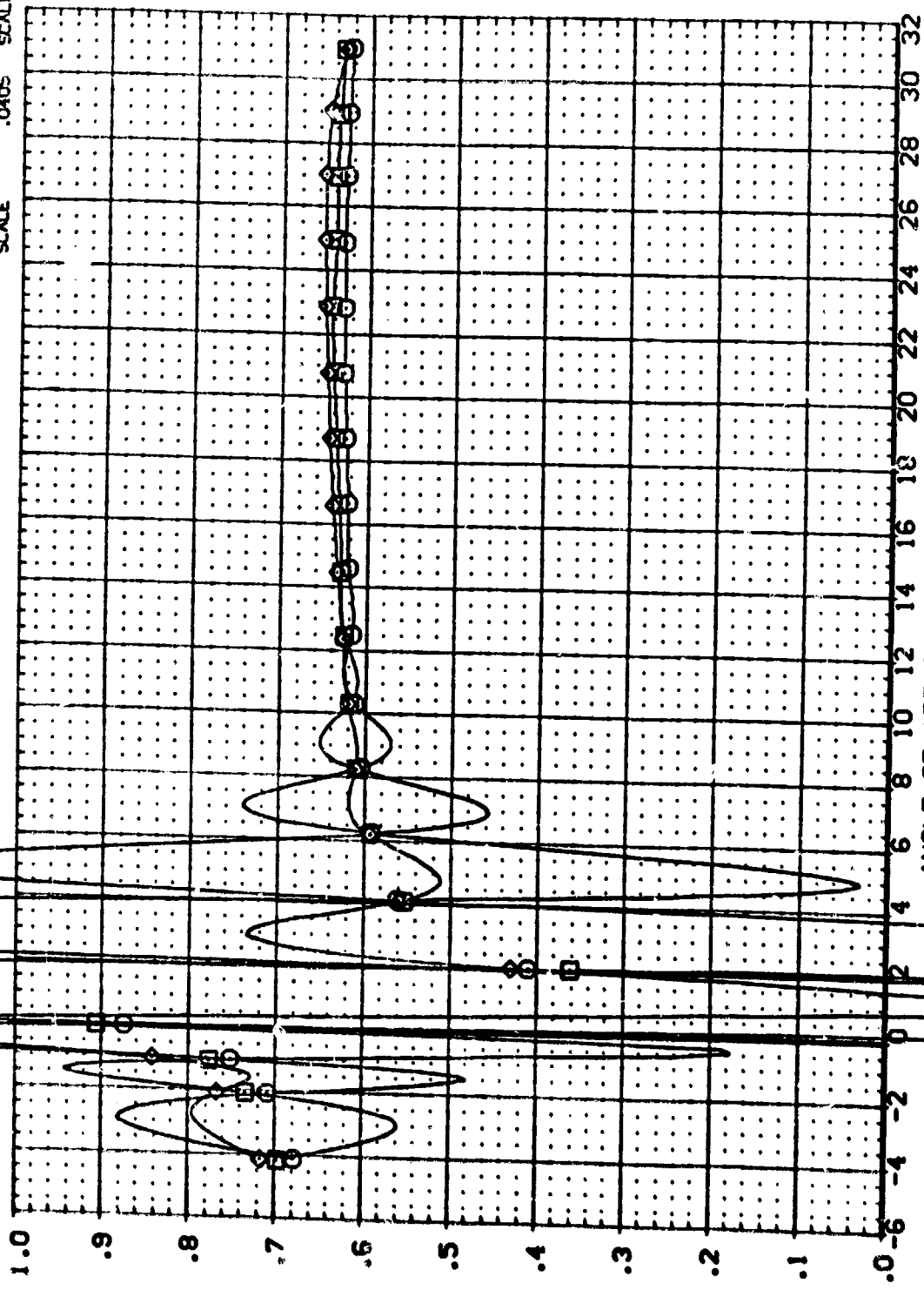


FIG 14 LONGITUDINAL CHAR LONG PYLON UNDERWING CLUSTER 6 NAC X0 = 950 AND 1050  
(X)MAC = .20

DATA SET SYMBOL      CONFIGURATION DESCRIPTION

(ADVO26)	DA62	B26C9	FBJ44V11GE26V85X10
(ADVO23)	DA62	B26C9	FBJ44V11GE26V85X10
(ADVO01)	DA62	B26C9	FB    V11GE26V85X9

NACX/L      ELEVON      BOFLAP      SPOBRK      REFERENCE INFORMATION

.000	.000	-12.000	.000	SREF      4.4119      50. FT.
.480	.000	-12.000	.000	LREF      19.2298      INCHES
	.000	-12.000	.000	BREF      37.9359      INCHES
				XMRP      43.5974      INCHES
				YMRP      .0000      INCHES
				ZMRP      15.1875      INCHES
				SCALE      .0405      SCALE

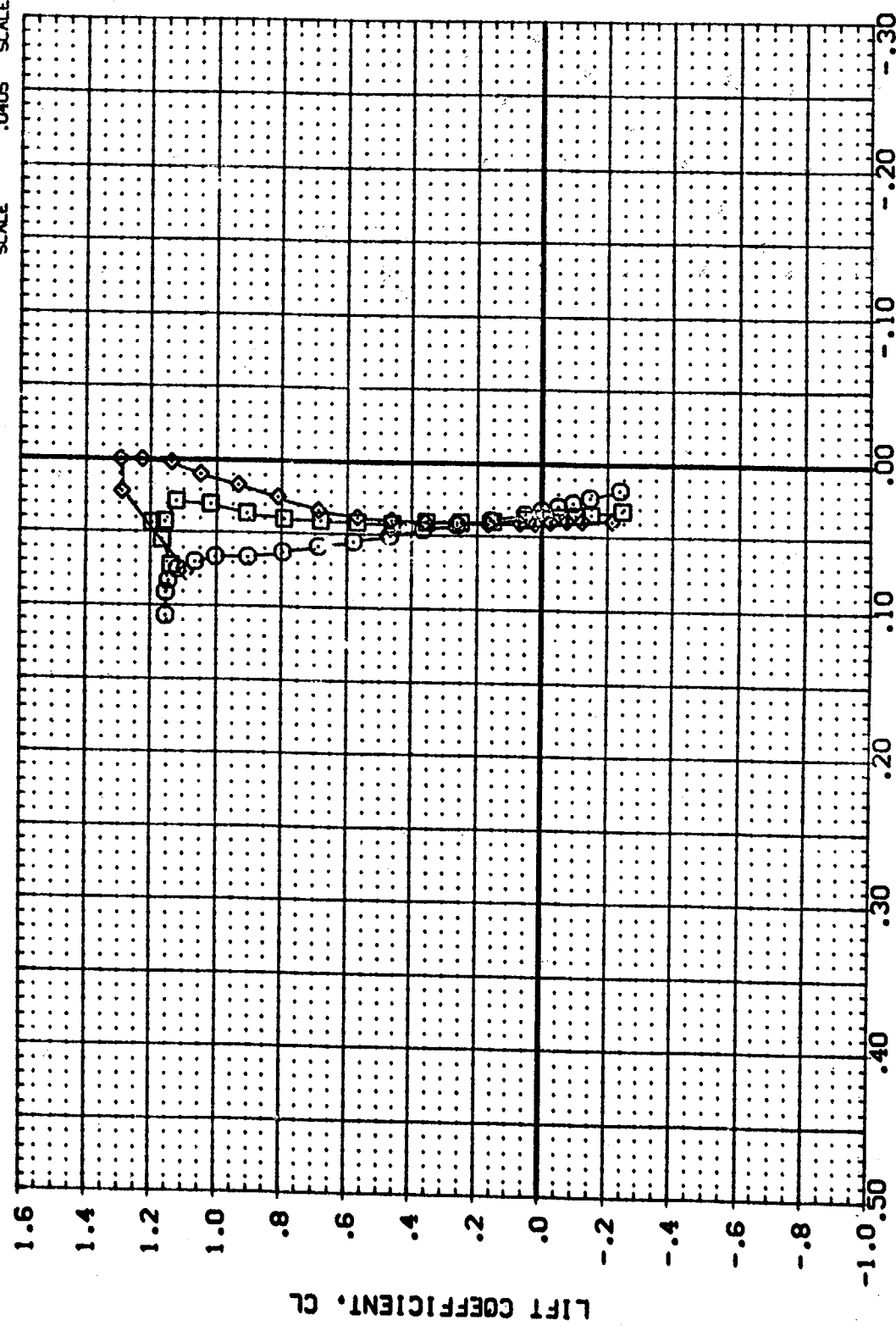


FIG 14 LONGITUDINAL CHAR LONG PYLON UNDERWING CLUSTER 6 NAC X0 = 950 AND 1050  
 (A)MACH = .20      PAGE 93

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NACA/L	ELEVON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(ADM026)	0A62 B26C9	.000	.000	-12.000	.000	SREF 4.419 SQ.FT.
(ADM023)	0A62 B26C9	.480	.000	-12.000	.000	LREF 19.2299 INCHES
(ADM001)	0A62 B26C9		.000	-12.000	.000	BREF 37.9359 INCHES
						YMRP 43.5974 INCHES
						ZMRP .0000 INCHES
						SCALE 15.1875 INCHES

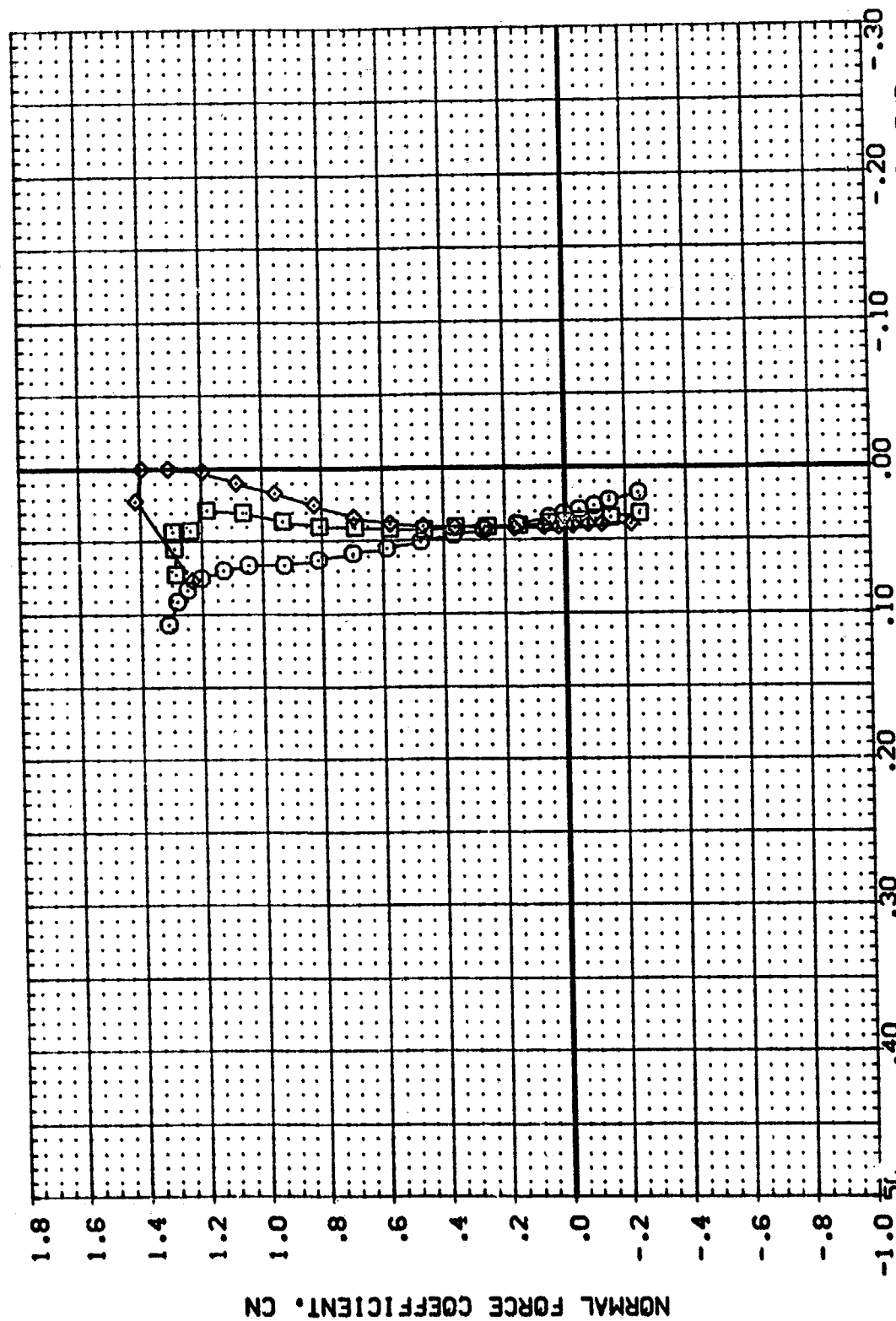


FIG 14 LONGITUDINAL CHAR LONG PYLON UNDERWING CLUSTER 6 NAC X0 = 950 AND 1050  
 (A)MACH = .20  
 PITCHING MOMENT COEFFICIENT ABOUT FWD CG LIMIT (.65 LB), CLMFWD  
 PAGE 94

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		NACA/L		ELEVON		BOFLAP		SPDRBK		REFERENCE INFORMATION	
(ADW026)	0A52	B26C9	FB444V11E26V8R5X10	.000	.000	.000	-12.000	.000	SREF	4.4119	50. FT.		
(ADW023)	0A52	B26C9	FB444V11E26V8R5X10	.480	.000	.000	-12.000	.000	LREF	19.2259	INCHES		
(ADW001)	0A52	B26C9	FB V11E26V8R5X9						BREF	27.9359	INCHES		
									XTRP	43.5974	INCHES		
									YTRP	15.1873	INCHES		
									ZTRP	.0405	INCHES		
									SCALE				

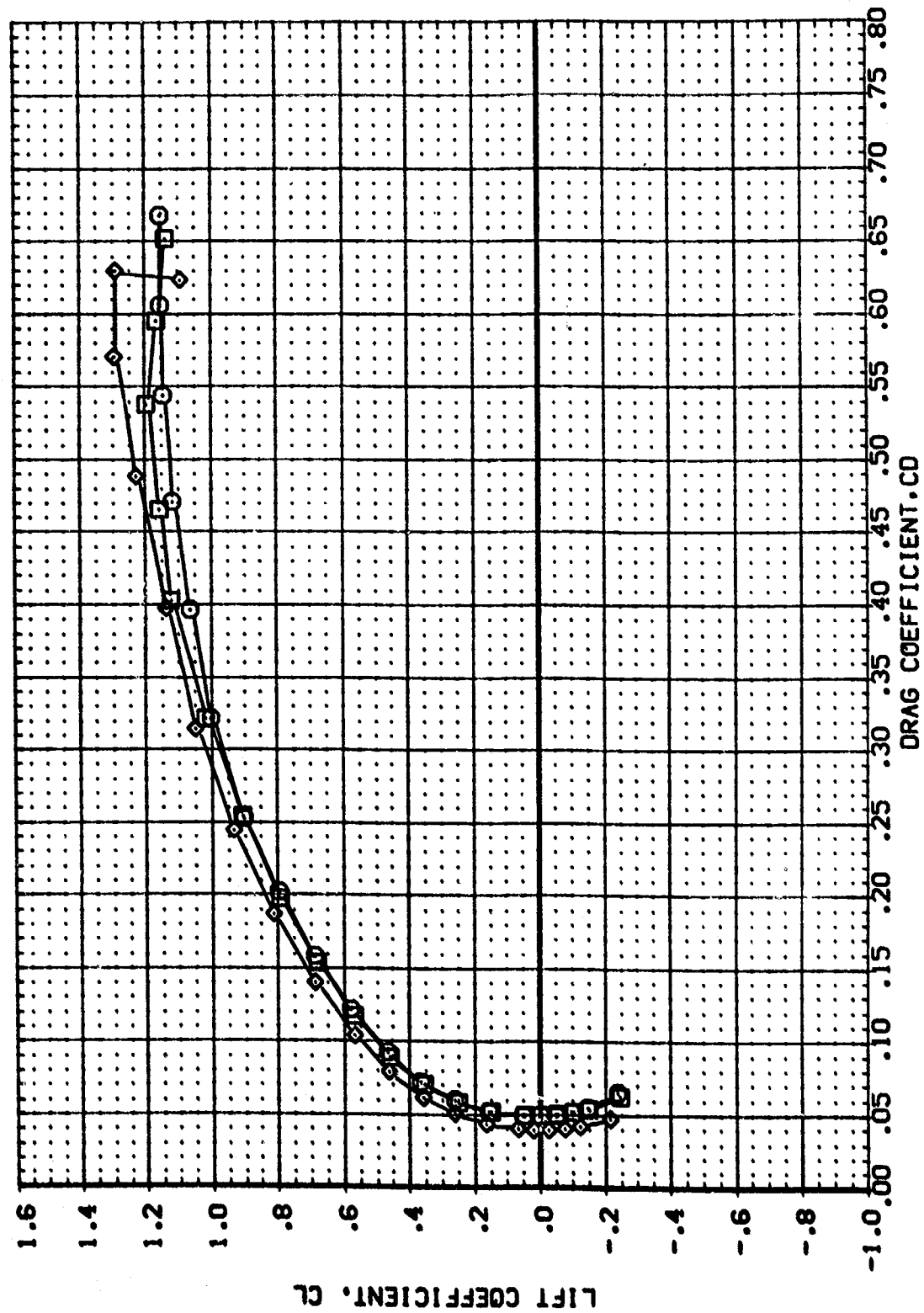


FIG 14 LONGITUDINAL CHAR LONG PYLON UNDERWING CLUSTER 6 NAC X0 = 950 AND 1050  
 (A)MACH = .20

DATA SET SYMBOL  
(CDV026)  
(CDV023)  
(CDV001)

CONFIGURATION DESCRIPTION  
F8J44V116E26V8S10  
F8J44V116E26V8S10  
F8 V116E26V8S10

MACX/L  
.000  
.480

ELEVON  
.000  
.000  
.000

BOFLAP  
-12.000  
-12.000  
-12.000

SPOBRK  
.000  
.000  
.000

REFERENCE INFORMATION  
SREF 4.4119 50.FT.  
LREF 19.2299 INCHES  
BREF 37.9359 INCHES  
XMRP 44.0000 INCHES  
ZMRP 15.1875 INCHES  
SCALE .0405

PITCHING MOMENT COEFFICIENT ABOUT AFT CG LIMIT (.675 LB). CLMAF1

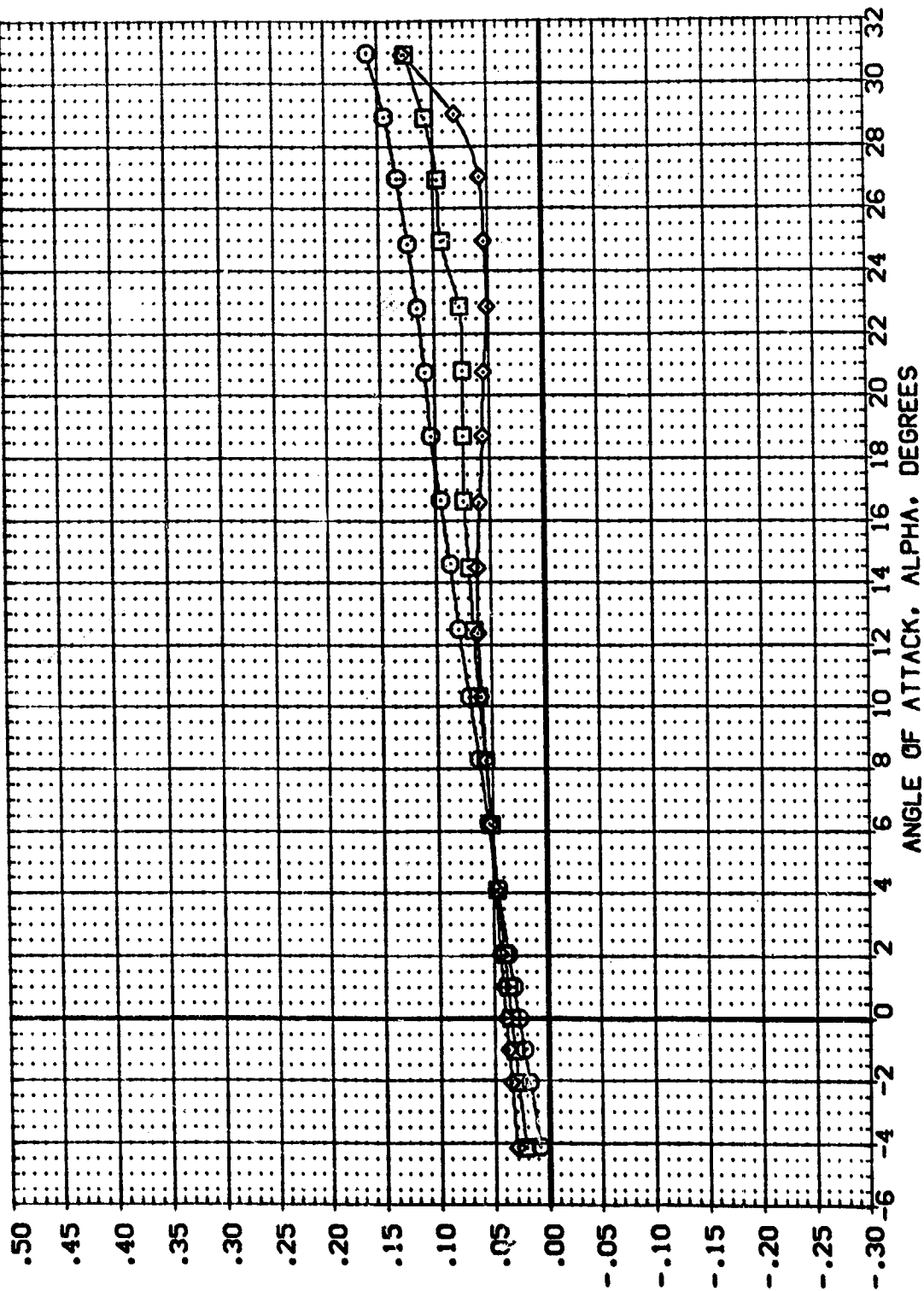


FIG 14 LONGITUDINAL CHAR LONG PYLON UNDERWING CLUSTER 6 NAC X0 = 950 AND 1050  
(A)MACH = .20



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	NACA/L	SPOBRK	RUDER	REFERENCE INFORMATION
(R04027)	0A62 B26C9 FB44V116E26VBR5X10	.000	.000	.000	.000	SREF 4.4119 SO.FT.
(R04028)	0A62 B26C9 FB44V116E26VBR5X10	10.000	.000	.000	.000	LREF 19.2299 INCHES
(R04029)	0A62 B26C9 FB44V116E26VBR5X10	.000	.480	.000	.000	BREF 37.9359 INCHES
(R04030)	0A62 B26C9 FB44V116E26VBR5X10	10.000	.480	.000	.000	YREF 43.5974 INCHES
(R04031)	0A62 B26C9 FB44V116E26VBR5X10	.000	.000	.000	.000	ZREF 15.1875 INCHES
(R04032)	0A62 B26C9 FB44V116E26VBR5X10	10.000	.000	.000	.000	SCALE .0405
(R04033)	0A62 B26C9 FB44V116E26VBR5X10					

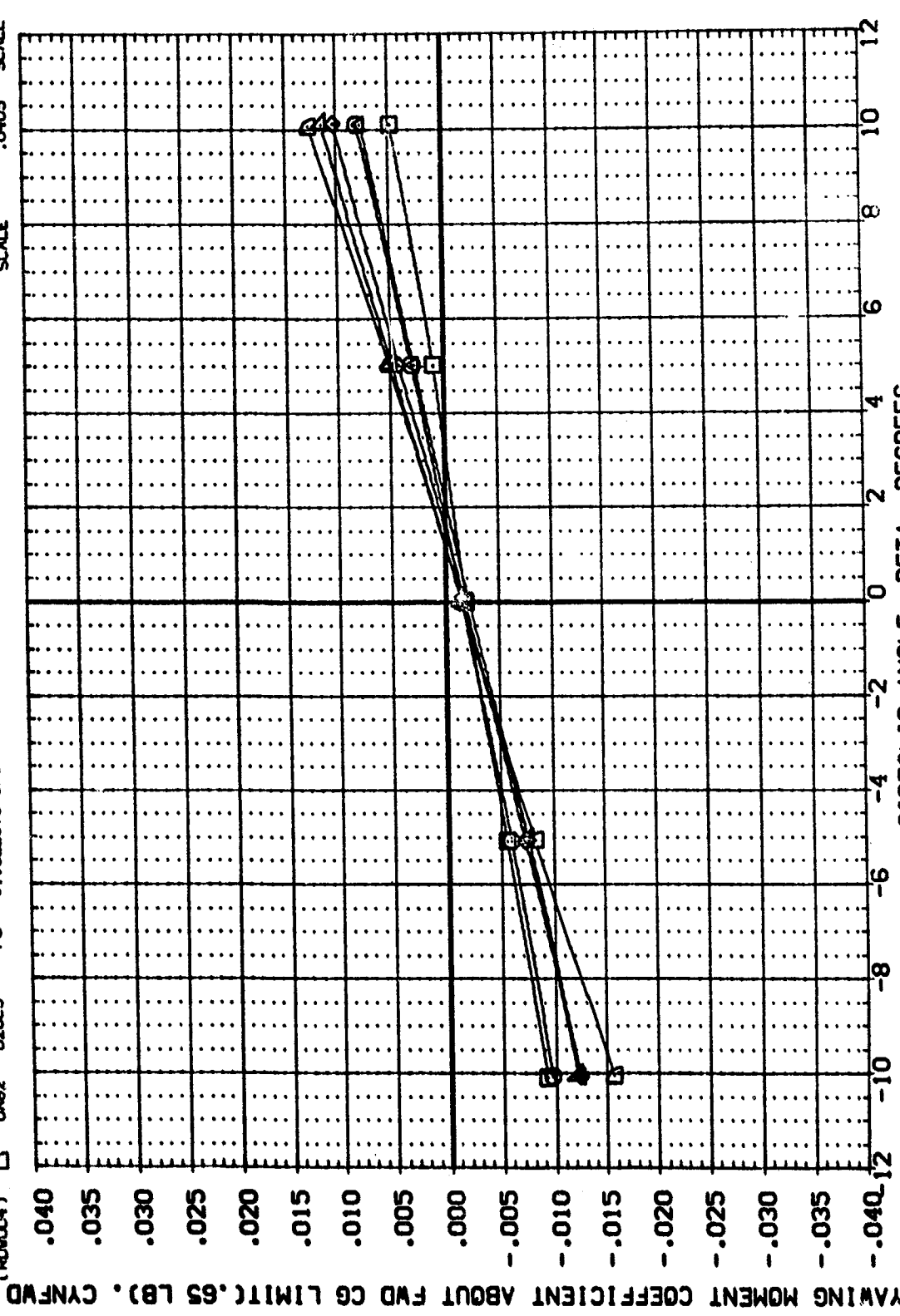


FIG 15 LAT. / DIR. CHAR LONG PYLON UNDERWING CLUSTER 6 NAC X0 = 950 AND 1050  
 (A)MACH = .20  
 PAGE 97

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	NACX/L	SPDRK	RUDDER	REFERENCE INFORMATION
(R0V027)	0A62 B26C9	.000	.000	.000	.000	SREF 4.4119 SO.FT.
(R0V028)	0A62 B26C9	10.000	.000	.000	.000	LREF 19.2299 INCHES
(R0V024)	0A62 B26C9	.000	.480	.000	.000	BREF 37.9359 INCHES
(R0V025)	0A62 B26C9	10.000	.480	.000	.000	XREF 43.5974 INCHES
(R0V022)	0A62 B26C9	.000	.000	.000	.000	YREF 15.0000 INCHES
(R0V004)	0A62 B26C9	10.000	.000	.000	.000	ZREF 15.1875 INCHES
						SCALE .0405

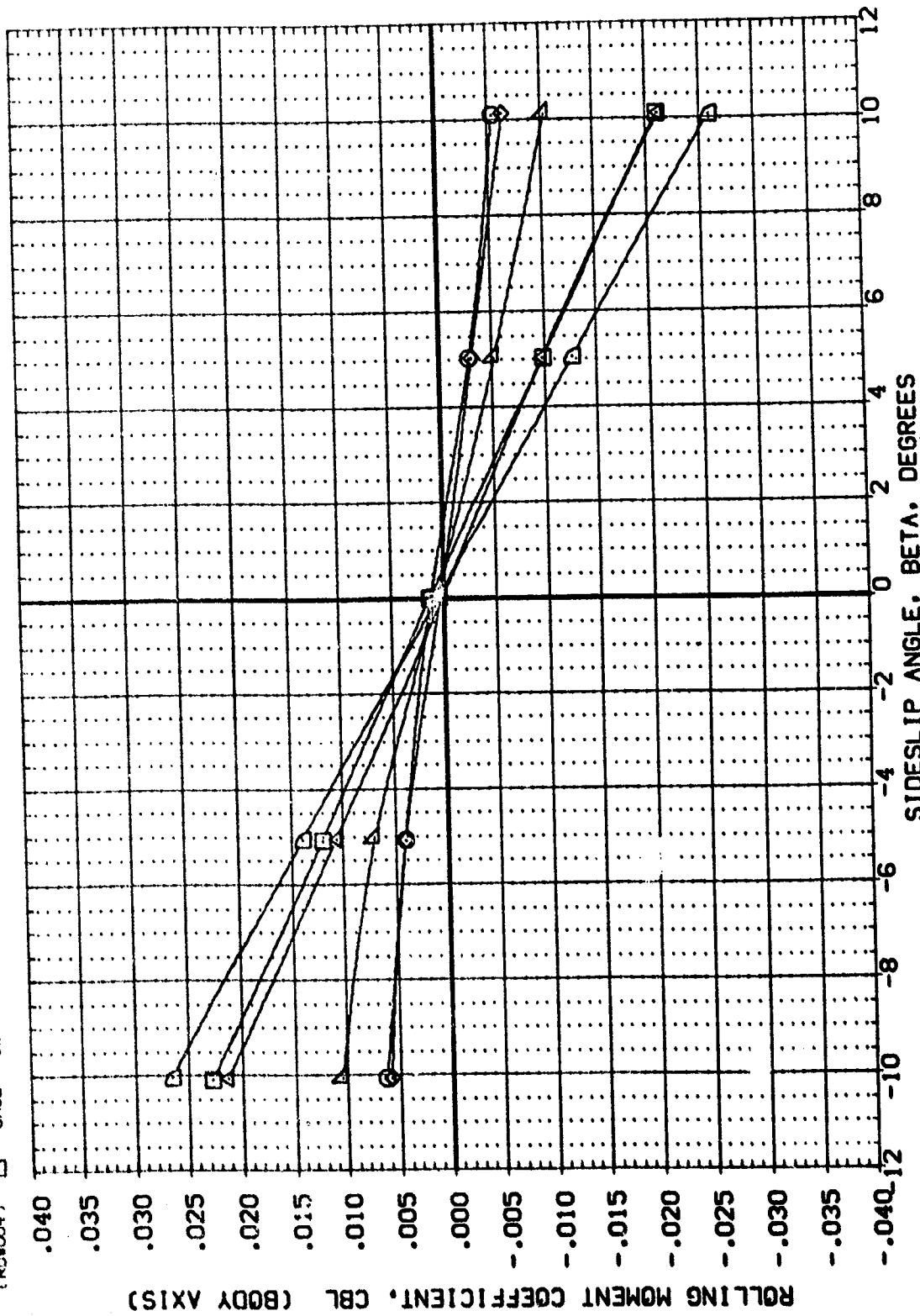


FIG 15 LAT. / DIR. CHAR LONG PYLON UNDERWING CLUSTER 6 NAC X0 = 950 AND 1050  
(A)MACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	NACX/L	SPOBRK	RUDDER	REFERENCE INFORMATION
(R0V027)	DA62 B26C9 FBJ44V116E26V8R5X10	.000	.000	.000	.000	SREF 4.4119 SQ.FT.
(R0V028)	DA62 B26C9 FBJ44V116E26V8R5X10	10.000	.000	.000	.000	LREF 19.2299 INCHES
(R0V029)	DA62 B26C9 FBJ44V116E26V8R5X10	.000	.480	.000	.000	BREF 37.9359 INCHES
(R0V025)	DA62 B26C9 FBJ44V116E26V8R5X10	10.000	.180	.000	.000	YMRP 43.5974 INCHES
(R0V002)	DA62 B26C9 FB V116E26V8R5X9	.000	.000	.000	.000	ZMRP .0000 INCHES
(R0V004)	DA62 B26C9 FB V116E26V8R5X9	10.000	.000	.000	.000	SCALE 15.1875 INCHES
						SCALE .0405

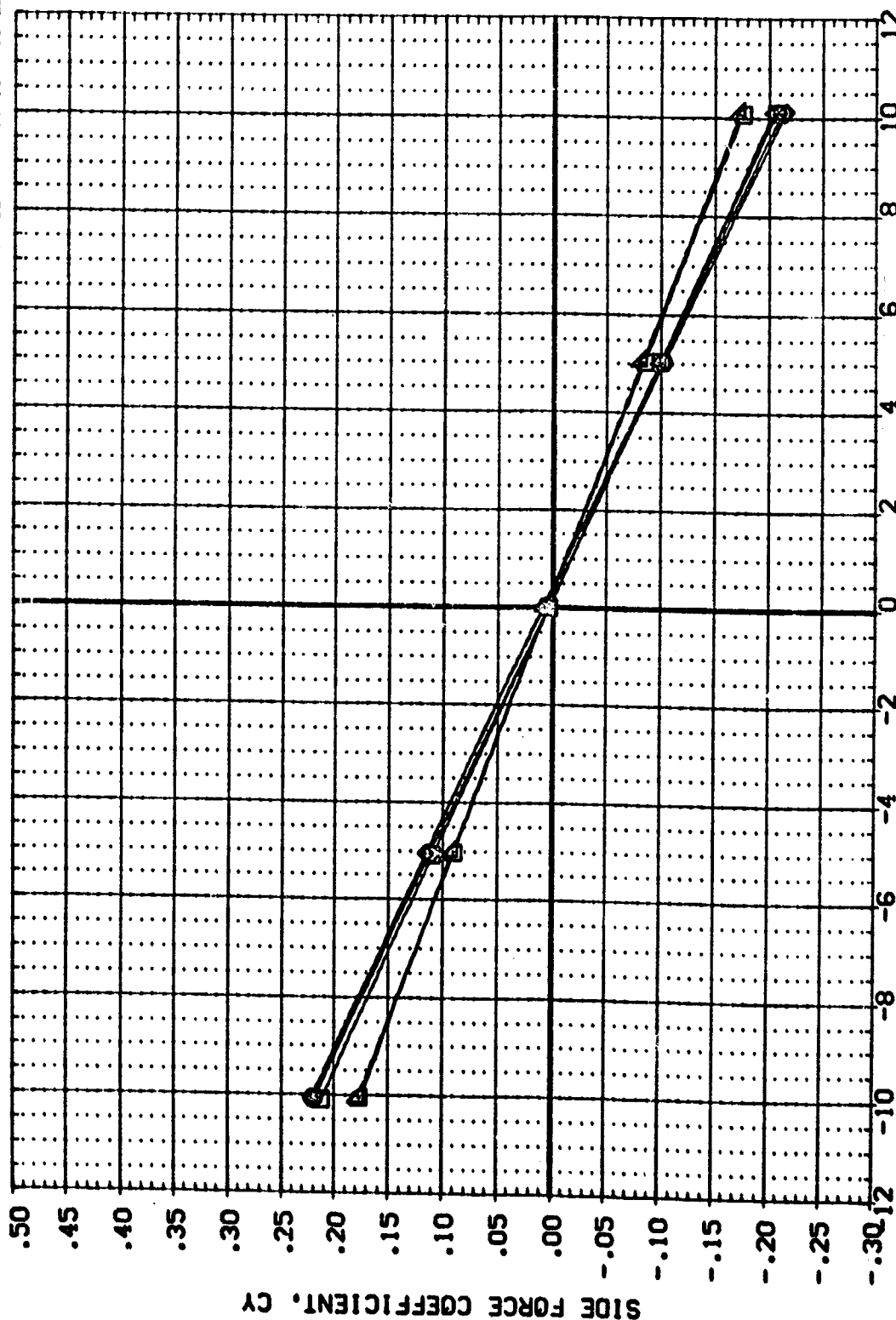


FIG 15 LAT. / DIR. CHAR LONG PYLON UNDERWING CLUSTER 6 NAC X0 = 950 AND 1050  
(A)MACH = .20

YAWING MOMENT COEFFICIENT DERIVATIVE WITH BETA, CYNBET, PER DEGREE

DATA SET SYMBOL  
(EDV027)  
(EDV024)  
(EDV002)

CONFIGURATION DESCRIPTION

0A62 B26C9  
0A62 B26C9  
0A62 B26C9  
F8J44V116E26V8RSX10  
F8J44V116E26V8RSX10  
F8 V116E26V8RSX9

NACX/L  
.000  
.480

ELEVON  
.000  
.000  
.000

BOFLAP  
-12.000  
-12.000  
-12.000

SPDRK  
.000  
.000  
.000

REFERENCE INFORMATION

SREF 4.4119 SO.FT.  
LREF 19.2299 INCHES  
BREF 37.9359 INCHES  
XMRP 43.5974 INCHES  
YMRP .0000 INCHES  
ZMRP 15.1875 INCHES  
SCALE .0405

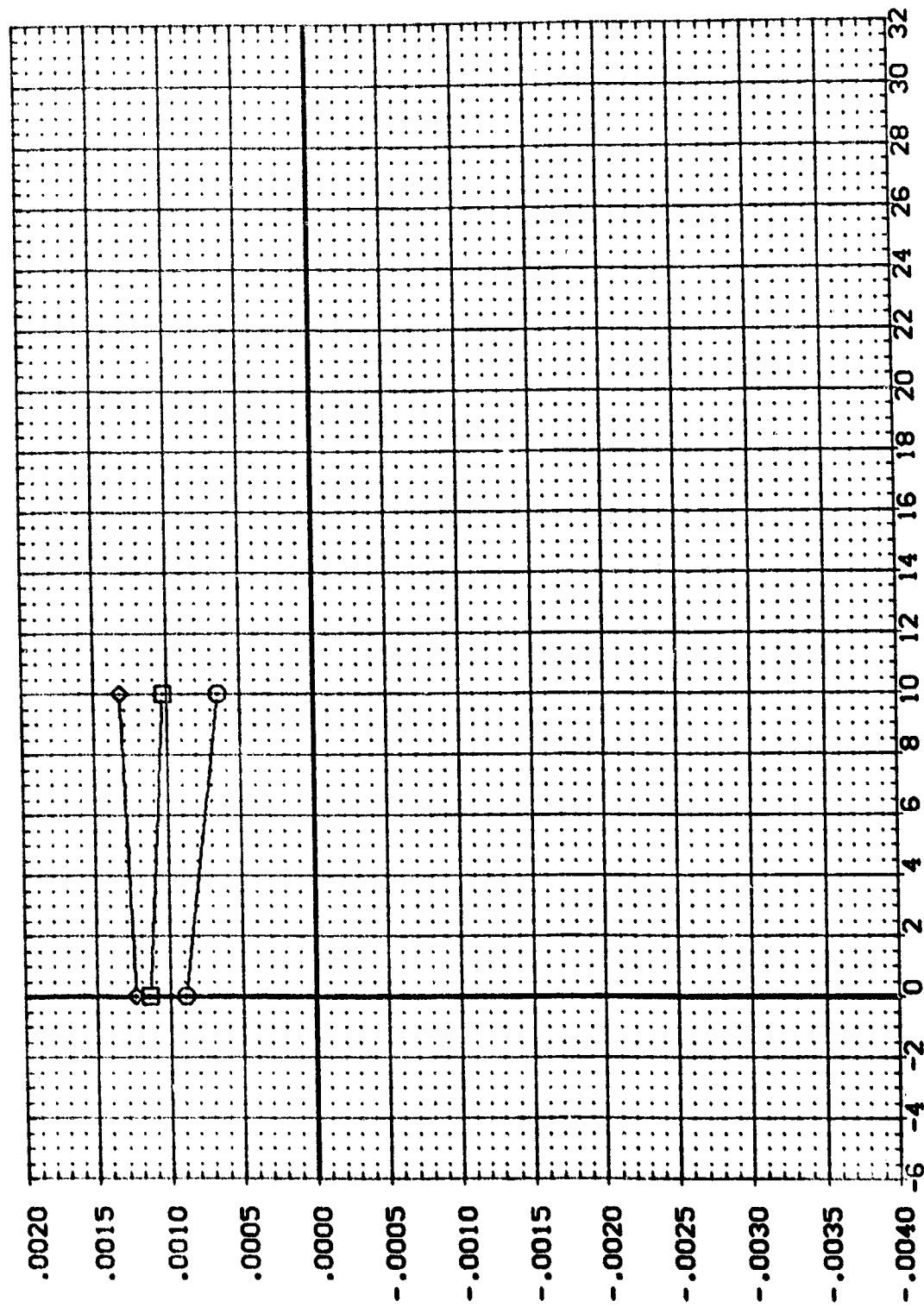


FIG 15 LAT. / DIR. CHAR LONG PYLON UNDERWING CLUSTER 6 NAC X0 = 950 AND 1050

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NAC X/L	ELEVON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(EDV027)	DAG2 B26C9	.000	.000	-12.000	.000	SREF 4.4119 50.FT.
(EDV024)	DAG2 B26C9	.480	.000	-12.000	.000	UREF 19.2269 INCHES
(EDV022)	DAG2 B26C9		.000	-12.000	.000	BREF 37.5559 INCHES
						XREF 43.5574 INCHES
						YREF .0000 INCHES
						ZREF 15.1875 INCHES
						SCALE .0405

ROLLING MOMENT COEFFICIENT DERIVATIVE WITH BETA, CBLBET, PER DEGREE

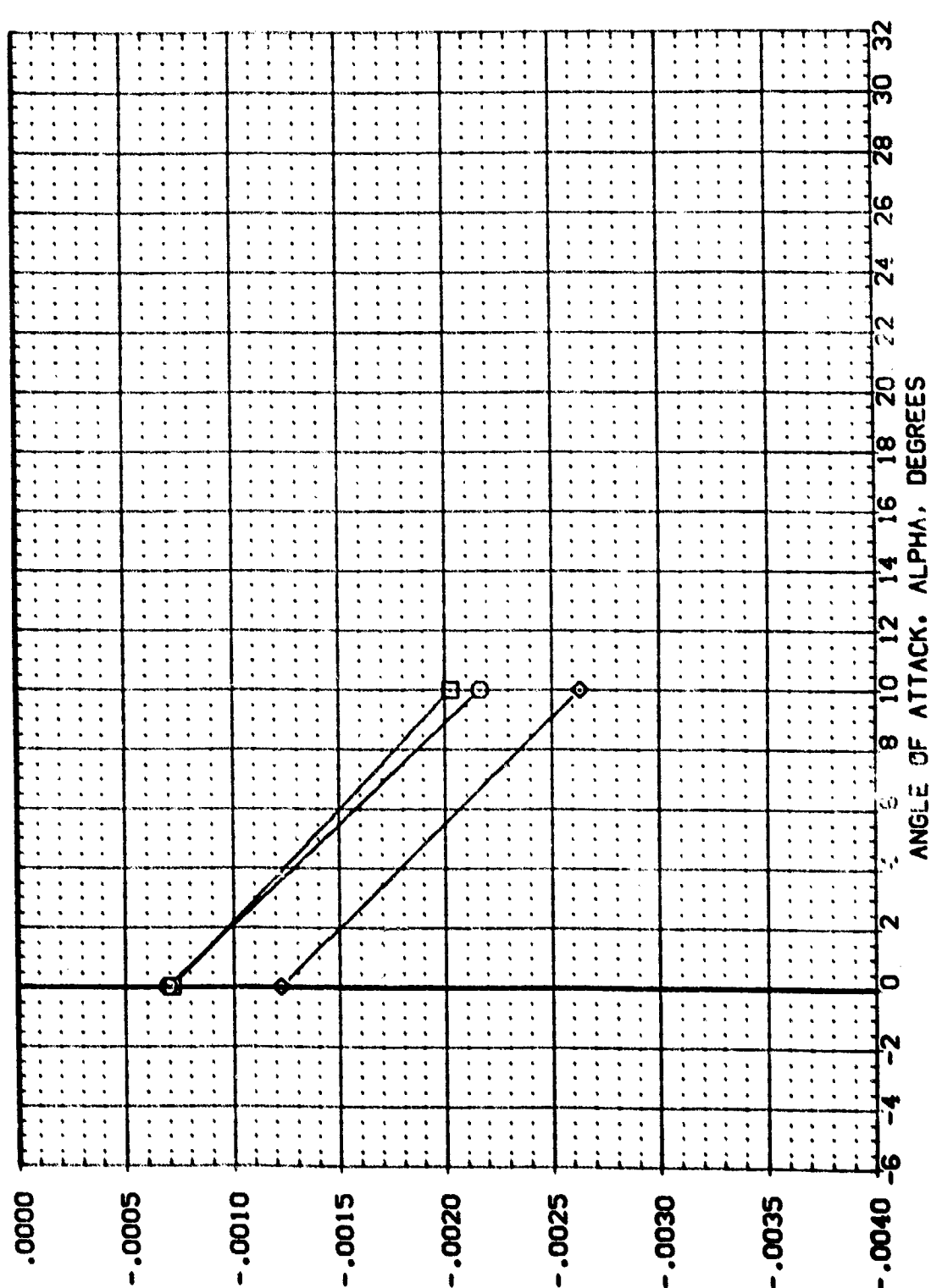


FIG 15 LAT. / DIR. CHAR LONG PYLON UNDERWING CLUSTER 6 NAC X0 = 950 AND 1050

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NACK/L	ELEVON	BDF/LAP	SPOBRK	REFERENCE INFORMATION
(EDVO27)	0A52 B26C9	.000	.000	-12.000	.000	SREF 4.4119 SQ.FT.
(EDVO24)	0A52 B26C9	.480	.000	-12.000	.000	LREF 19.2299 INCHES
(EDVO02)	0A52 B26C9		.000	-12.000	.000	BREF 37.5359 INCHES
						XMRP 43.5974 INCHES
						ZMRP .0000 INCHES
						SCALE 15.1875 INCHES
						SCALE .0405

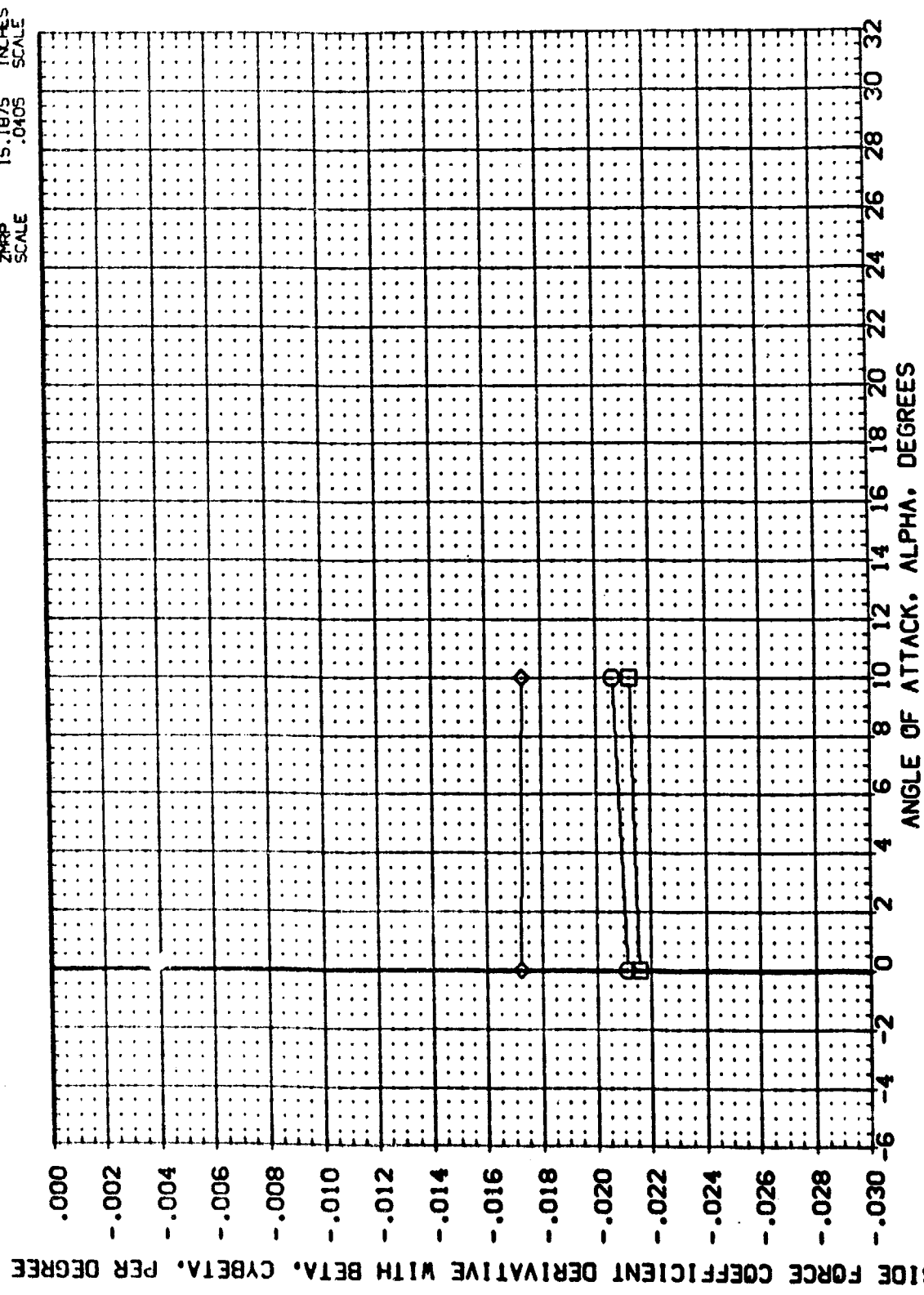


FIG 15 LAT. / DIR. CHAR LONG PYLON UNDERWING CLUSTER 6 NAC X0 = 950 AND 1050

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (ADVC29) CA52 B26C9 FB445V116E26V85SX10  
 (ADVC32) CA52 B26C9 FB445V116E26V85SX10  
 (ADVC01) CA52 B26C9 FB V116E26V85SX9

NACA/ELEVON BDFLAP SPODBK  
 .480 .000 -12.000 .000  
 .480 .000 -12.000 .000

REFERENCE INFORMATION  
 SREF 4.4119 50 FT.  
 LREF 19.2299 INCHES  
 BREF 37.9359 INCHES  
 XMRP 43.5374 INCHES  
 YMRP .0000 INCHES  
 ZMRP 15.1875 INCHES  
 SCALE .0405

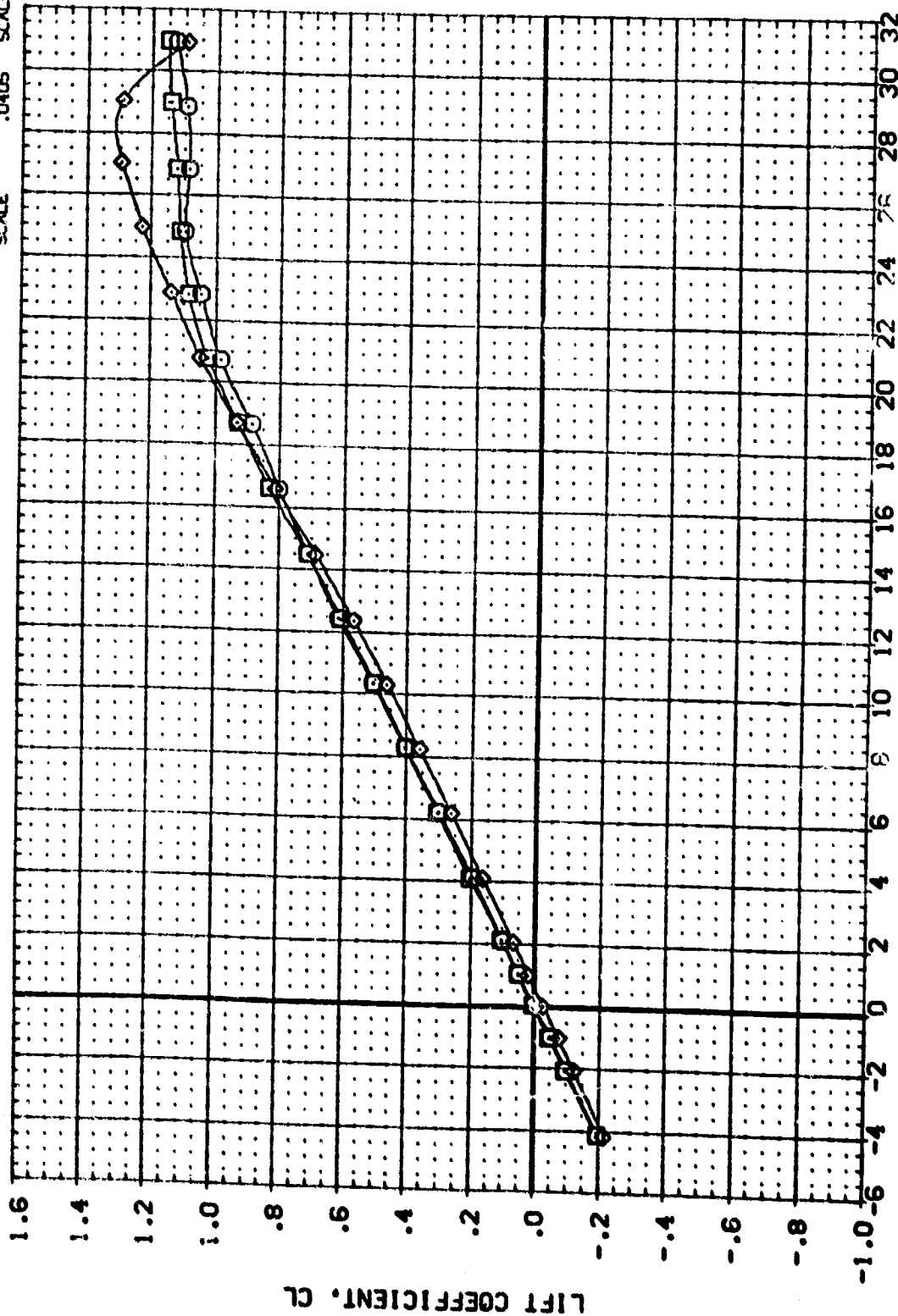


FIG 16 LONG CHAR. SHORT + LONG PYLON OVERWING CLUSTER 6 NAC X0 = 950 AND 1050  
 (A)MACH = .20

DATA SET SYMBOL CONFIGURATION DESCRIPTION

0462	B25C9	F8J46V116E26V95SX10
0462	B25C9	F8J46V116E26V95SX10
0462	B25C9	F8 J116E26V95SX9

NACX/L ELEVON BOFLAP SPOBRK REFERENCE INFORMATION

.480	.000	.000	SREF	4.4119	50. FT.
.000	.000	.000	LREF	19.2299	INCHES
.000	.000	.000	BREF	37.9358	INCHES
			XMRP	43.5974	INCHES
			YMRP	.0000	INCHES
			ZMRP	15.1875	INCHES
			SCALE	.0405	SCALE

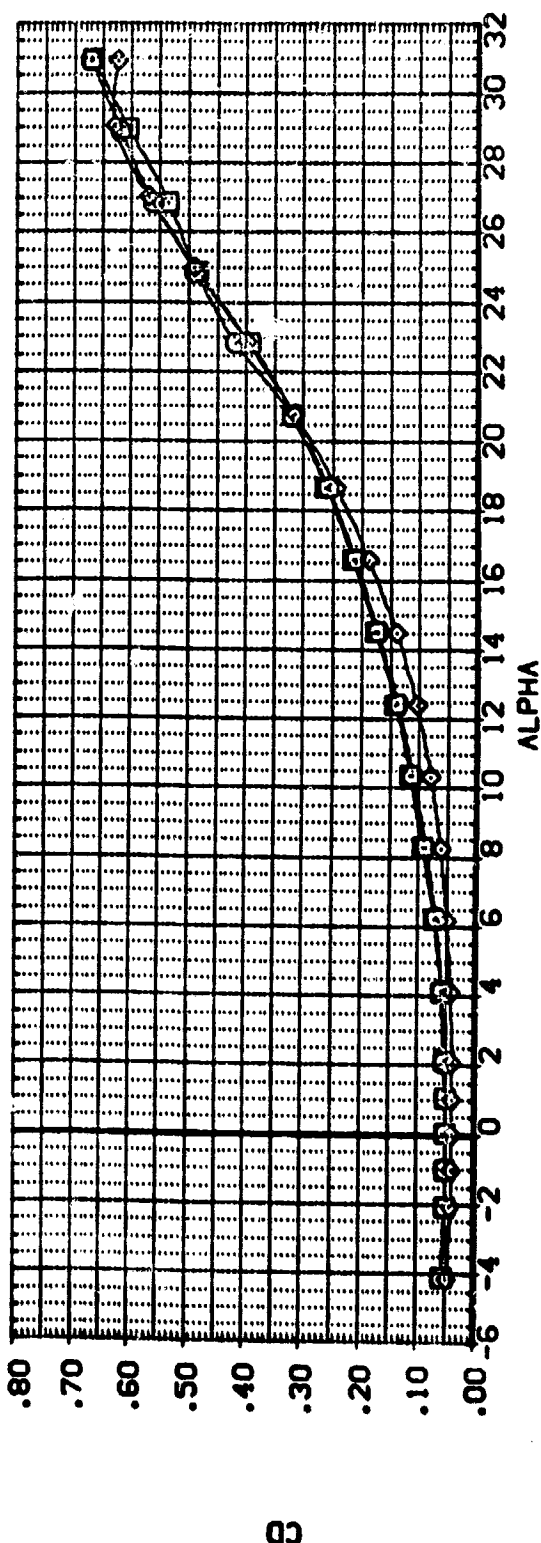
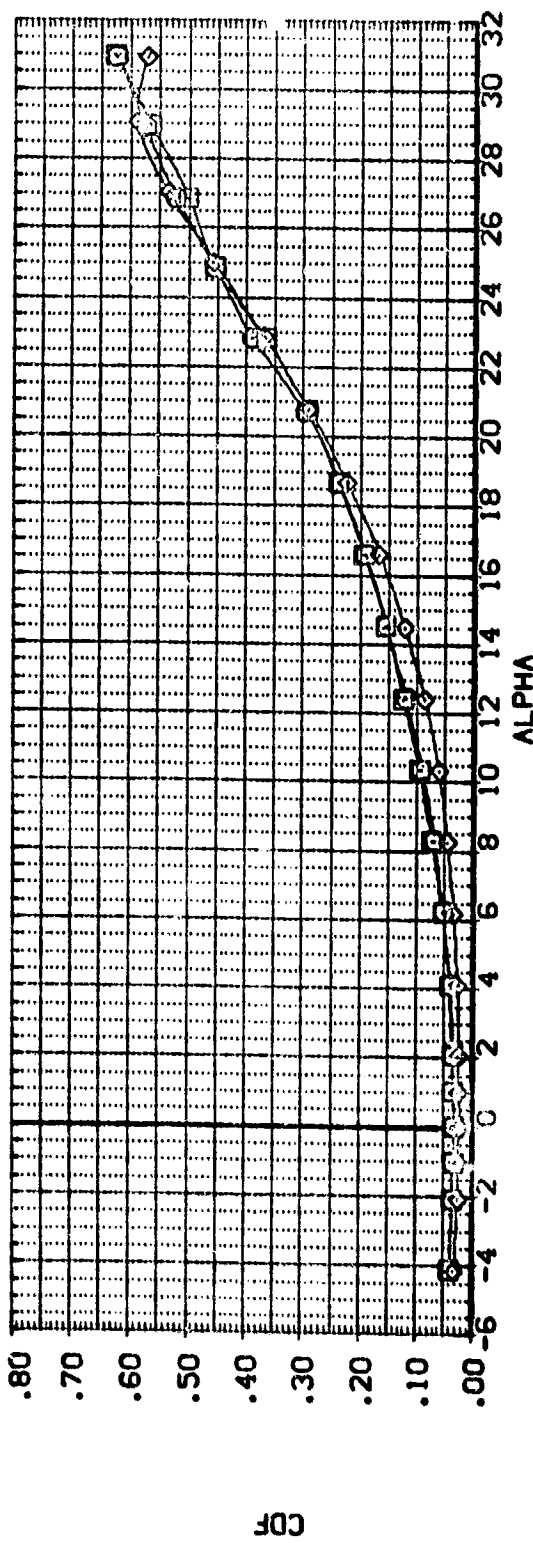


FIG 16 LONG CHAR. SHORT + LONG PYLON OVERWING CLUSTER 6 NAC X0 = 950 AND 1050  
(A)MACH = .20



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NACA	ELEVON	BD/LAP	SPORX	REFERENCE INFORMATION
(ADVO29)	DAG2 B26C9	.480	.000	-12.000	.000	SREF 4.4119 50.FT.
(ADVO32)	DAG2 B26C9	.480	.000	-12.000	.000	LREF 19.2299 INCHES
(ADVO01)	DAG2 B26C9		.000	-12.000	.000	BREF 37.9359 INCHES
						YREF 43.5974 INCHES
						ZREF .0000 INCHES
						SCALE 15.1875 INCHES
						SCALE .0405

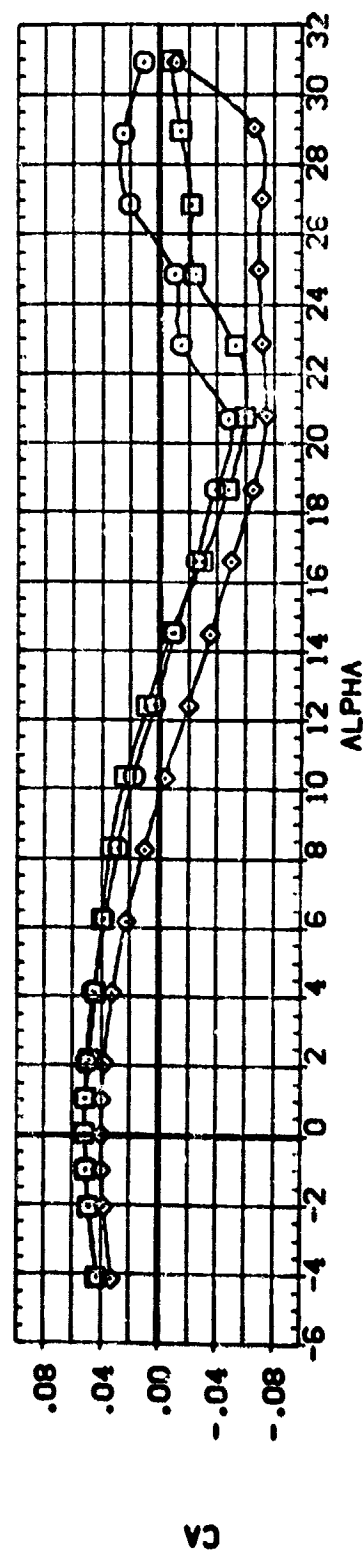
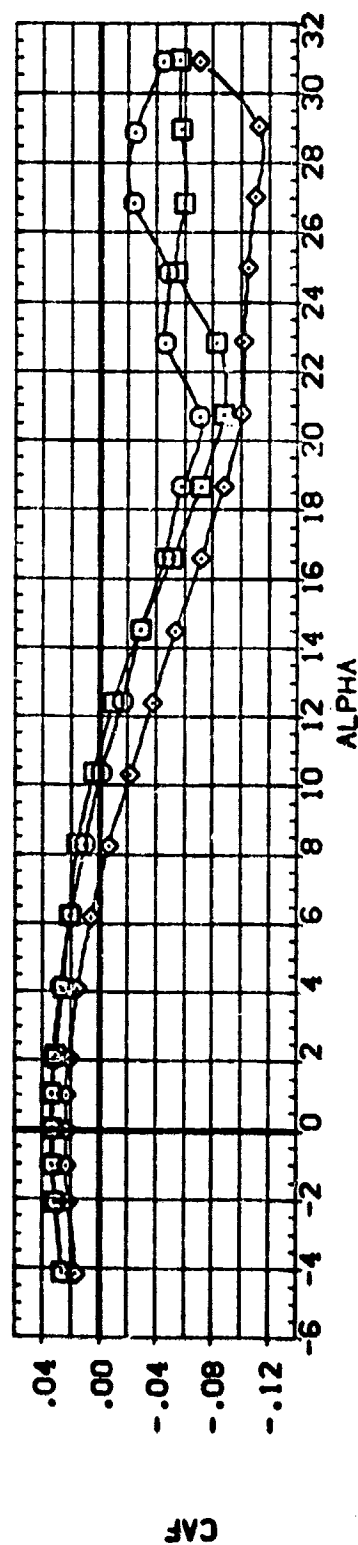
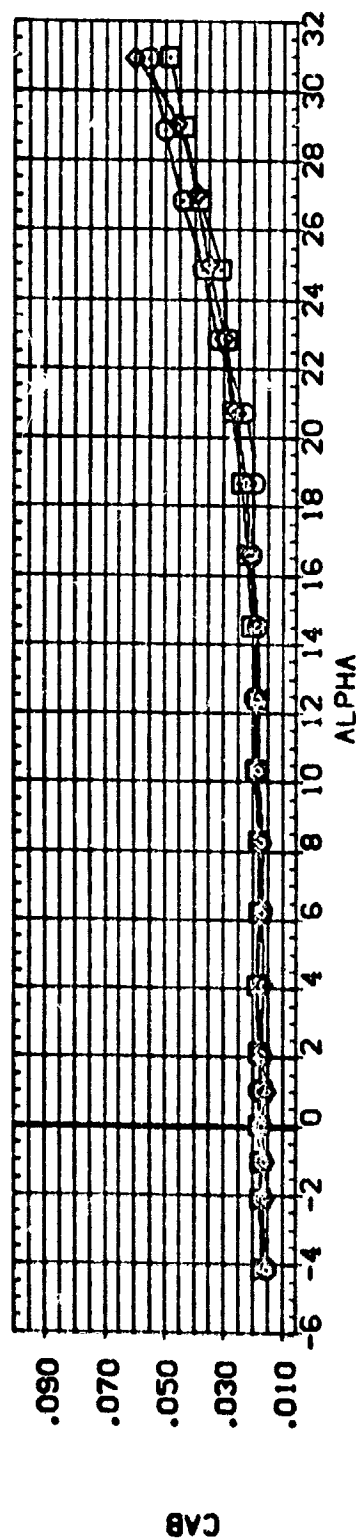


FIG 16 LONG CHAR. SHORT + LONG PYLON OVERWING CLUSTER 6 NAC X0 = 950 AND 1050  
(A)MACH = .20

DATA SET SYMBOL  
(ADV029)  
(ADV032)  
(ADV001)

CONFIGURATION DESCRIPTION  
DAG2 B26C9 FB/45V11SE26V85X10  
DAG2 B26C9 FB/45V11SE26V85X10  
DAG2 B26C9 FB V11SE26V85X9

NACK/L  
.480  
.480

ELEVON  
.000  
.000

BOFLAP  
-12.000  
-12.000

SPOBRK  
.000  
.000

REFERENCE INFORMATION  
SREF 4.4119 SO.FT.  
LREF 19.2299 INCHES  
BREF 37.9359 INCHES  
XMRP 43.5974 INCHES  
YMRP 15.1875 INCHES  
ZMRP .0405 INCHES  
SCALE

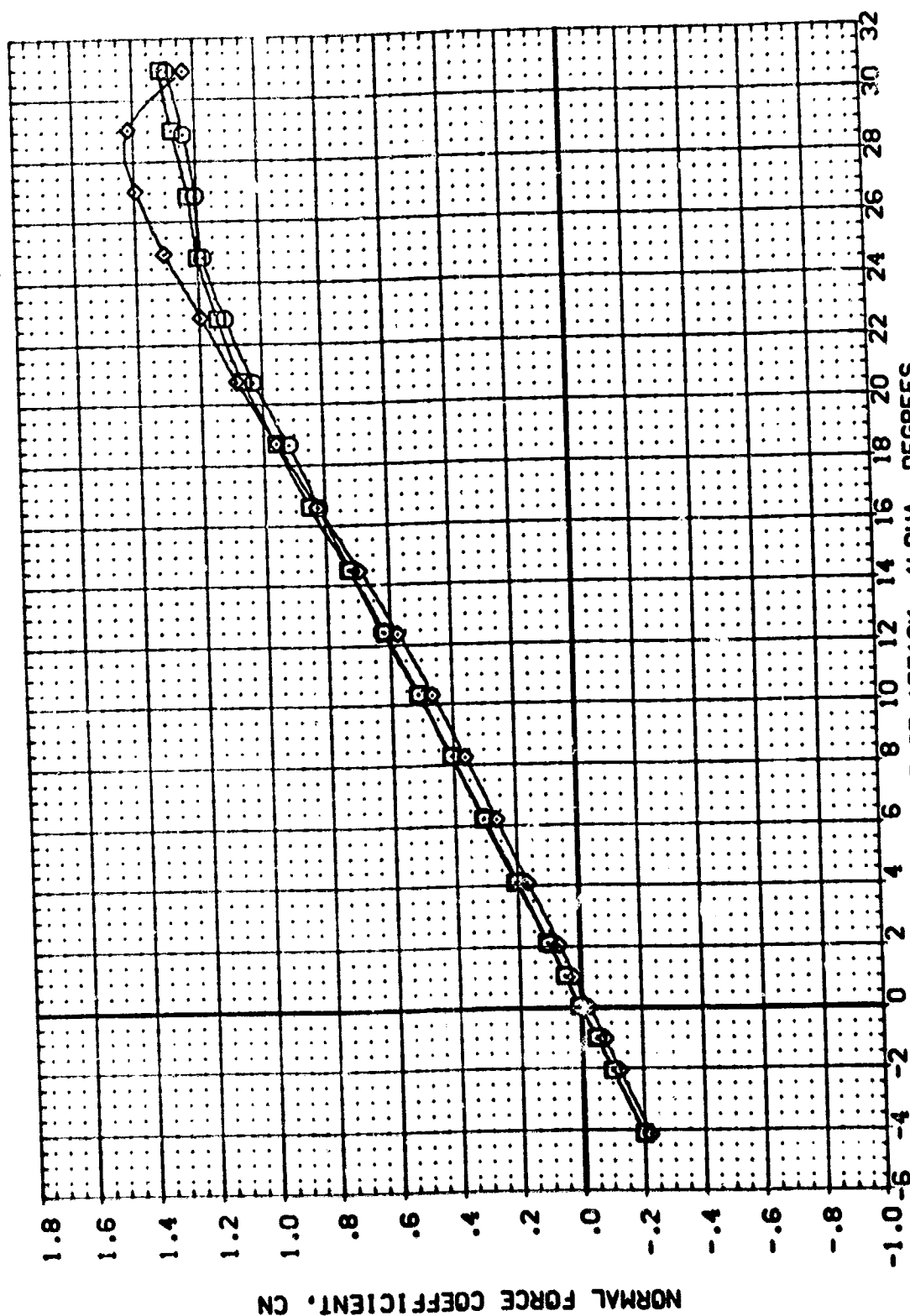


FIG 16 LONG CHAR. SHORT + LONG PYLON OVERWING CLUSTER 6 NAC X0 = 950 AND 1050  
(A)MACH = .20

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		NACX/L		ELEVON		BOT/LAP		SPDRK		REFERENCE INFORMATION	
(ADV029)	QAG2	B26C9	FBJ4SV116E26V8RSX10	.480	.000	-12.000	.000	SREF	4.4119	50. FT.			
(ADV032)	QAG2	B26C9	FBJ4SV116E26V8RSX10	.480	.000	-12.000	.000	LREF	19.2299	INCHES			
(ADV001)	QAG2	B26C9	FB J116E26V8RSX3					BREF	37.9359	INCHES			
								XMRP	43.5974	INCHES			
								YMRP	.0000	INCHES			
								ZMRP	15.1875	INCHES			
								SCALE	.0405	SCALE			

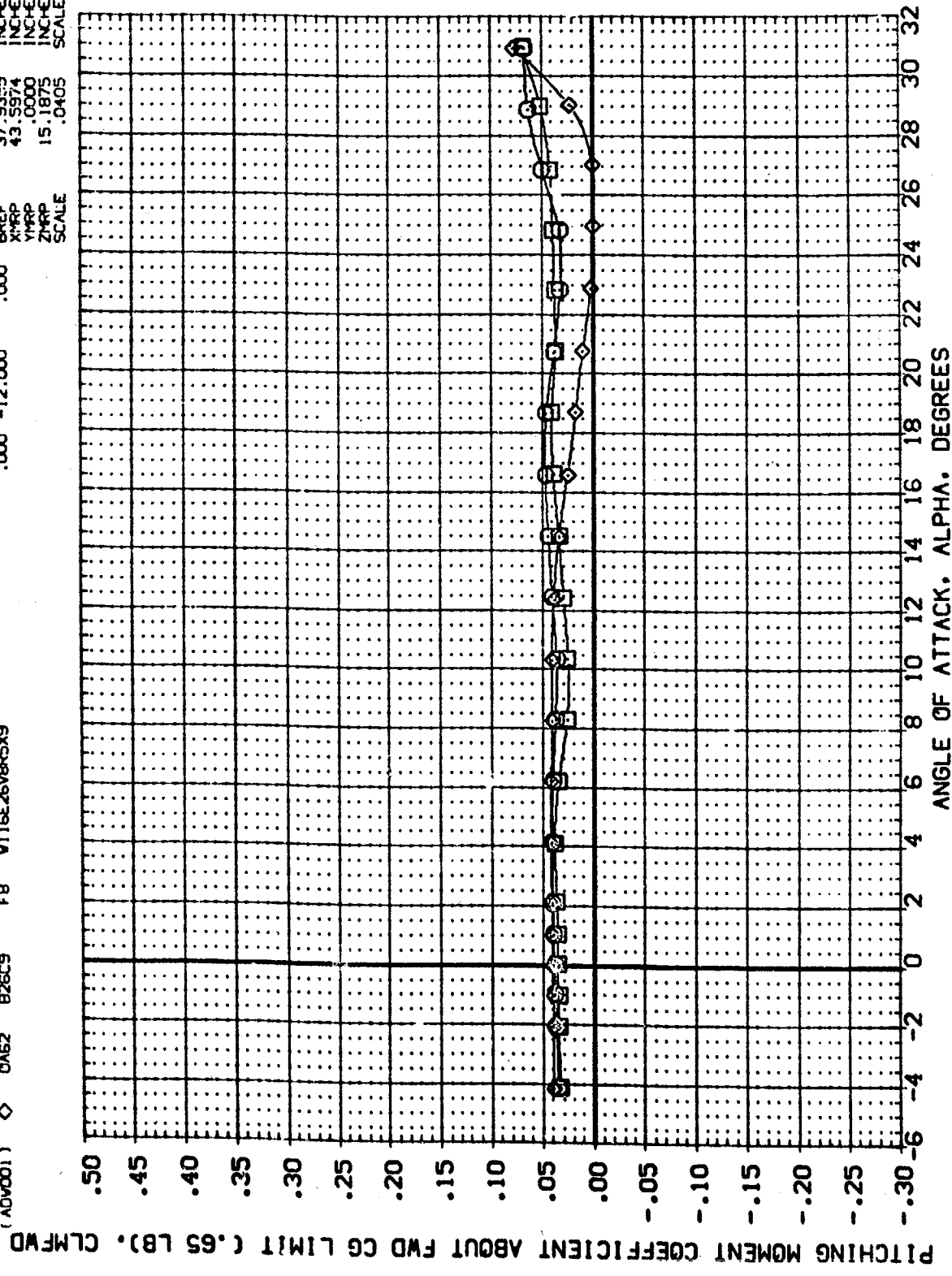


FIG 16 LONG CHAR. SHORT + LONG PYLON OVERWING CLUSTER 6 NAC X0 = 950 AND 1050  
 (A)MACH = .20  
 PAGE 107

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NACA/L	ELEVON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(ADW029)	0A62 B26C9 FB44SV116E2SV8RSX10	.480	.000	-12.000	.000	4.4119 SO.FT.
(ADW032)	0A62 B26C9 FB44SV116E2SV8RSX10	.480	.000	-12.000	.000	19.2298 INCHES
(ADW001)	0A62 B26C9 FB44SV116E2SV8RSX9	.480	.000	-12.000	.000	37.9359 INCHES
						43.5974 INCHES
						.0000 INCHES
						15.1875 INCHES
						SCALE
						SCALE

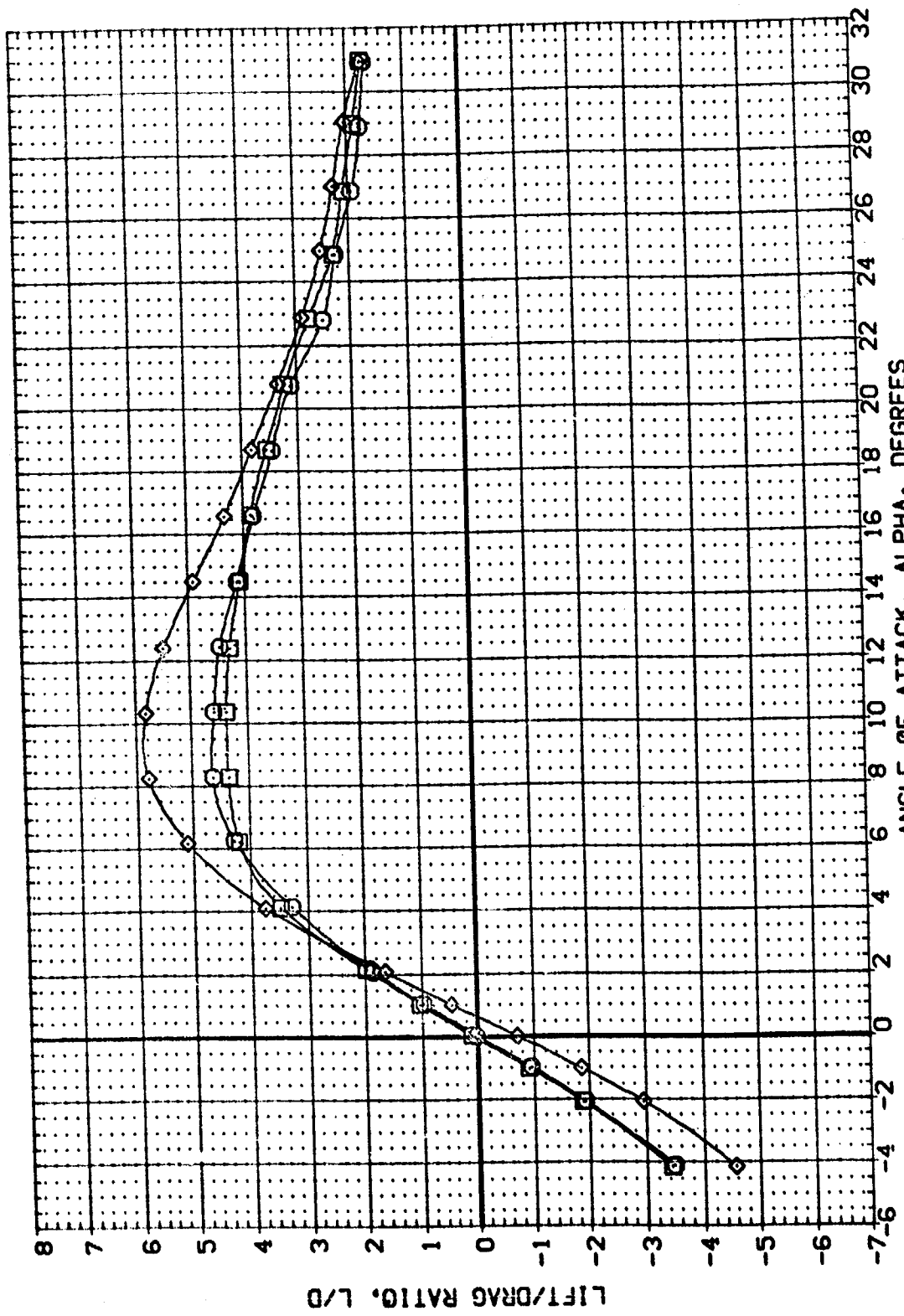


FIG 16 LONG CHAR. SHORT + LONG PYLON OVERWING CLUSTER 6 NAC X0 = 950 AND 1050  
 (A)MACH = .20  
 PAGE 108

DATA SET SYMBOL  
(ADVO29)  
(ADVO32)  
(ADVO01)

CONFIDENCE  
0A52  
0A52  
0A52

DESCRIPTION  
F8U45V116E26V85X10  
F8U45V116E26V85X10  
F8 U116E26V85X9

NACX/L  
.480  
.480

ELEVON  
.000  
.000  
.000

BD/LAP  
-12.000  
-12.000  
-12.000

SPOBRK  
.000  
.000  
.000

REFERENCE INFORMATION  
SREF 4.4119 SO.FT.  
LREF 19.2298 INCHES  
BREF 37.5259 INCHES  
XMRP 43.5574 INCHES  
YMRP 15.0000 INCHES  
ZMRP 15.1875 INCHES  
SCALE .0405

LONGITUDINAL CENTER OF PRESSURE LOCATION, FRACTION BODY LENGTH XCP/L

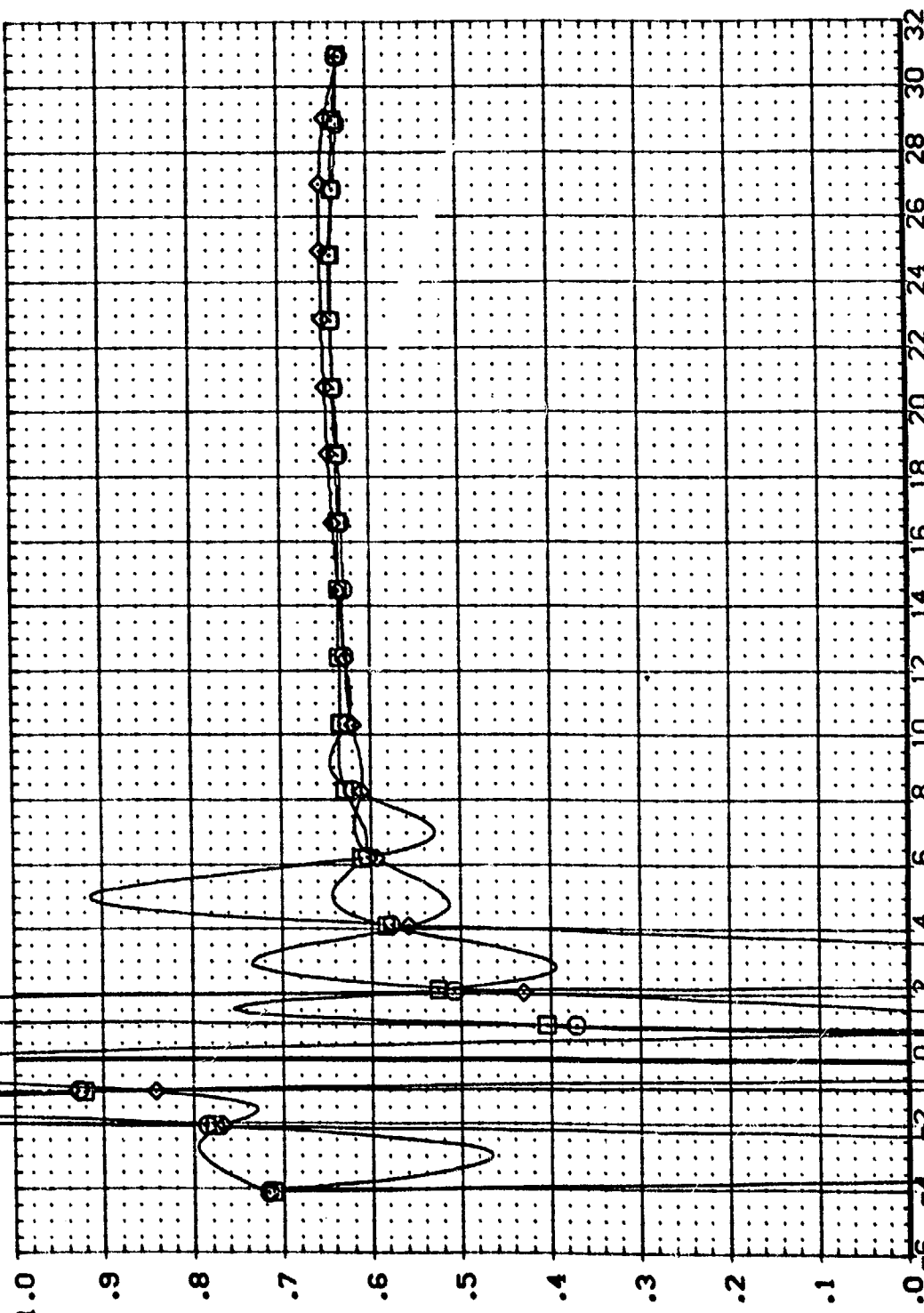


FIG 16

LONG CHAR.

SHORT + LONG PYLON OVERWING CLUSTER 6 NAC X0 = 950 AND 1050

(A)MACH = .20

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (ADW029) DAS2 B26C9 FB44SV116E26V85X10  
 (ADW032) DAS2 B26C9 FB44SV116E26V85X10  
 (ADW001) DAS2 B26C9 FB V116E26V85X9

NACX/L ELEVON BOFLAP SPDBRK  
 .48C .000 -12.000 .000  
 .480 .000 -12.000 .000

REFERENCE INFORMATION  
 SREF 4.4119 SQ.FT.  
 LREF 19.2299 INCHES  
 BREF 37.9359 INCHES  
 XMRP 43.5974 INCHES  
 YMRP .0000 INCHES  
 ZMRP 15.1875 INCHES  
 SCALE .0405 INCHES

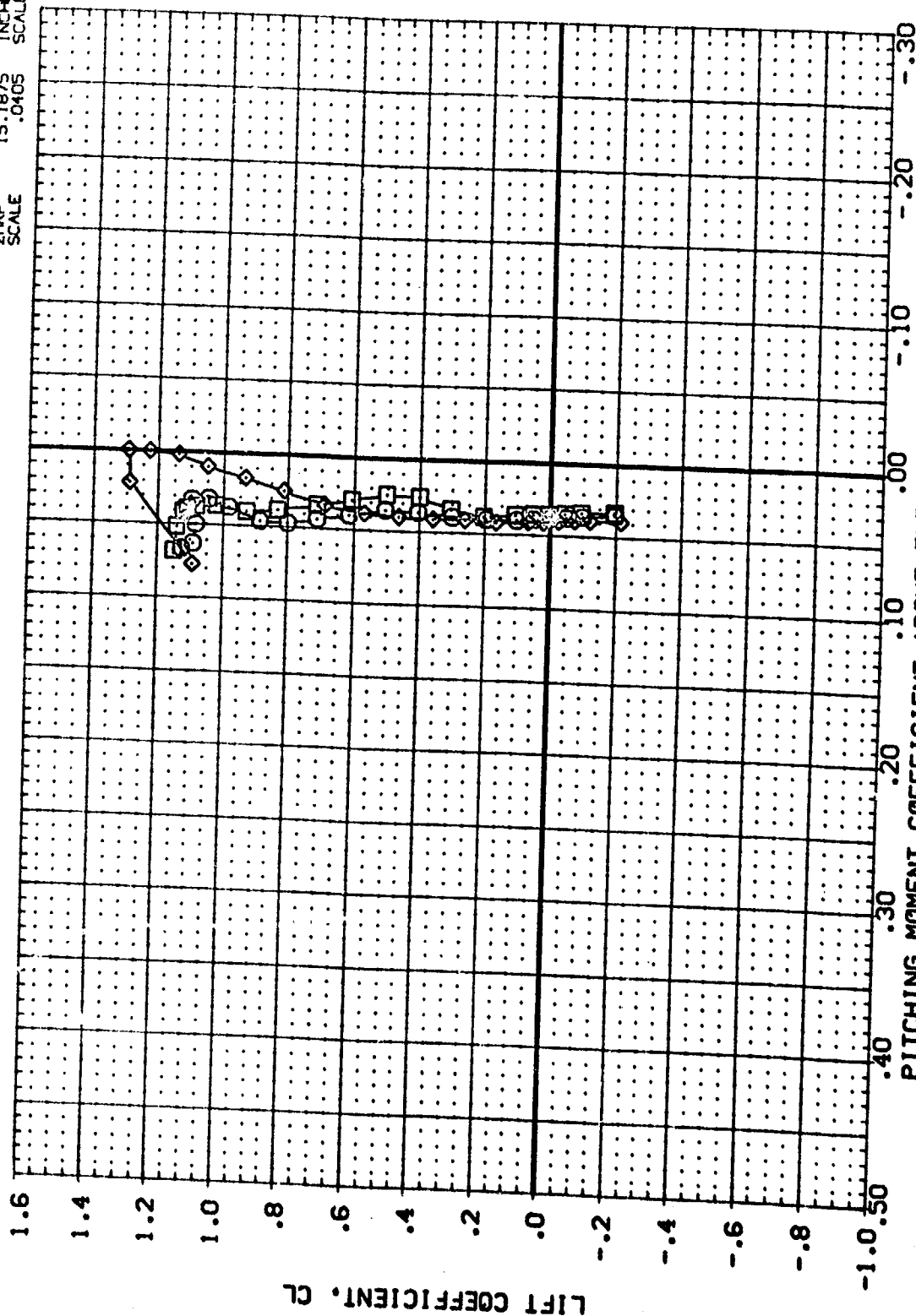


FIG 16 LONG CHAR. SHORT + LONG PYLON OVERWING CLUSTER 6 NAC X0 = 950 AND 1050  
 (A)MACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NACA/L	ELEVON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(ADV029)	0A62 826C9 F8J45V11E26V85X10	.480	.000	-12.000	.000	SREF 4.4119 SO.FT.
(ADV032)	0A62 826C9 F8J45V11E26V85X10	.480	.000	-12.000	.000	LREF 19.2299 INCHES
(ADV001)	0A62 826C9 F8 J11E26V85X9		.000	-12.000	.000	BREF 37.9359 INCHES
						XMRP 43.5974 INCHES
						YMRP .0000 INCHES
						ZMRP 15.1875 INCHES
						SCALE .0405

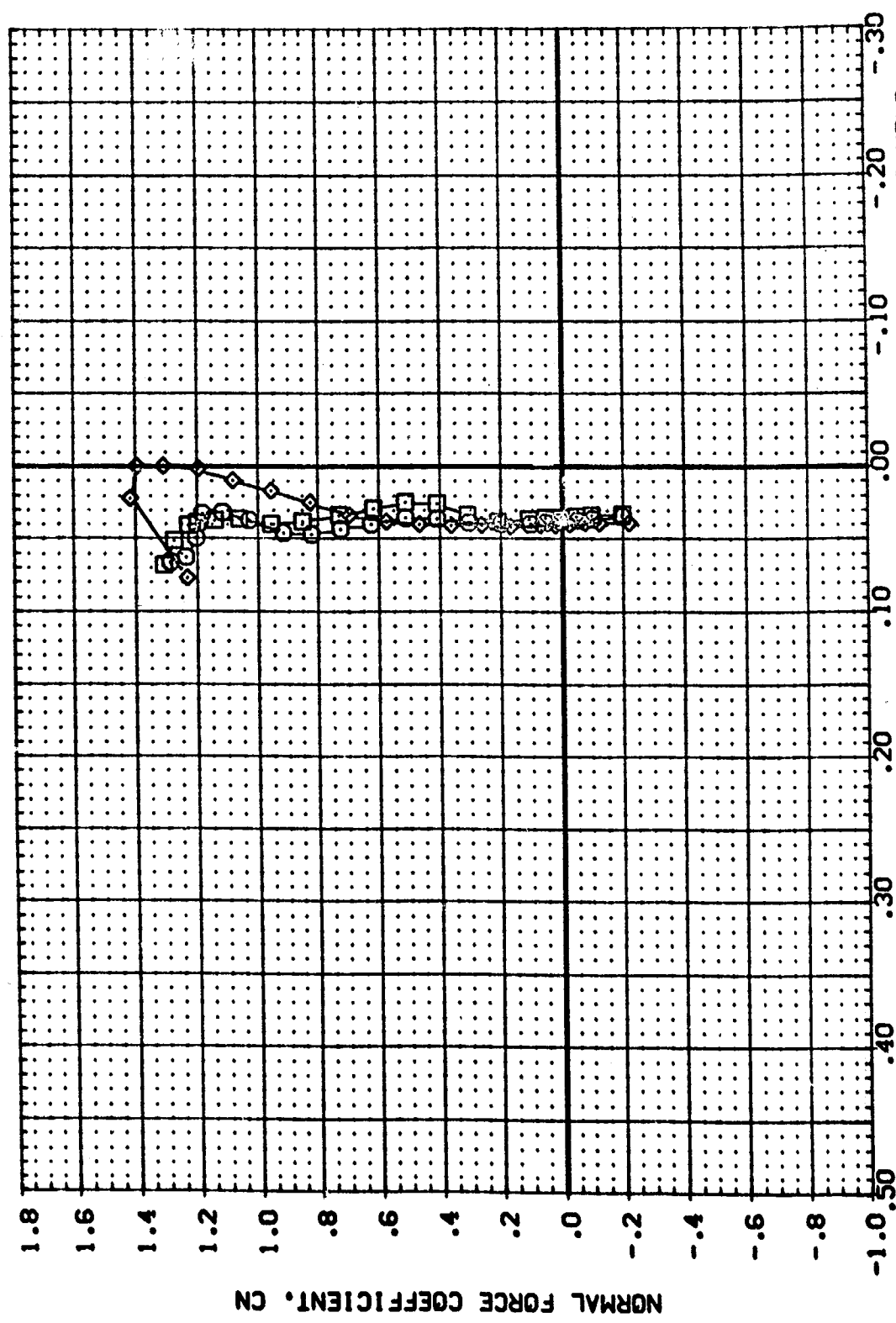


FIG 16 LONG CHAR. SHORT + LONG PYLON OVERWING CLUSTER 6 NAC X0 = 950 AND 1050  
 (A)MACH = .20

DATA SET SYMBOL      CONFIGURATION DESCRIPTION  
 (ADV029)      DAE2      B26C9      FB44SV116E26V8R5X10  
 (ADV032)      DAE2      B26C9      FB44SV116E26V8R5X10  
 (ADV001)      DAE2      B26C9      FB      V116E26V8R5X9

NACA/L      ELEVON      BOFLAP      SPOBRK  
 .480      .000      -12.000      .000  
 .480      .000      -12.000      .000  
 .480      .000      -12.000      .000

REFERENCE INFORMATION  
 SREF      4.4119      SQ.FT.  
 LREF      19.2299      INCHES  
 BREF      37.9359      INCHES  
 XGRP      43.5974      INCHES  
 YGRP      10.000      INCHES  
 ZGRP      15.1875      INCHES  
 SCALE      .0405      SCALE

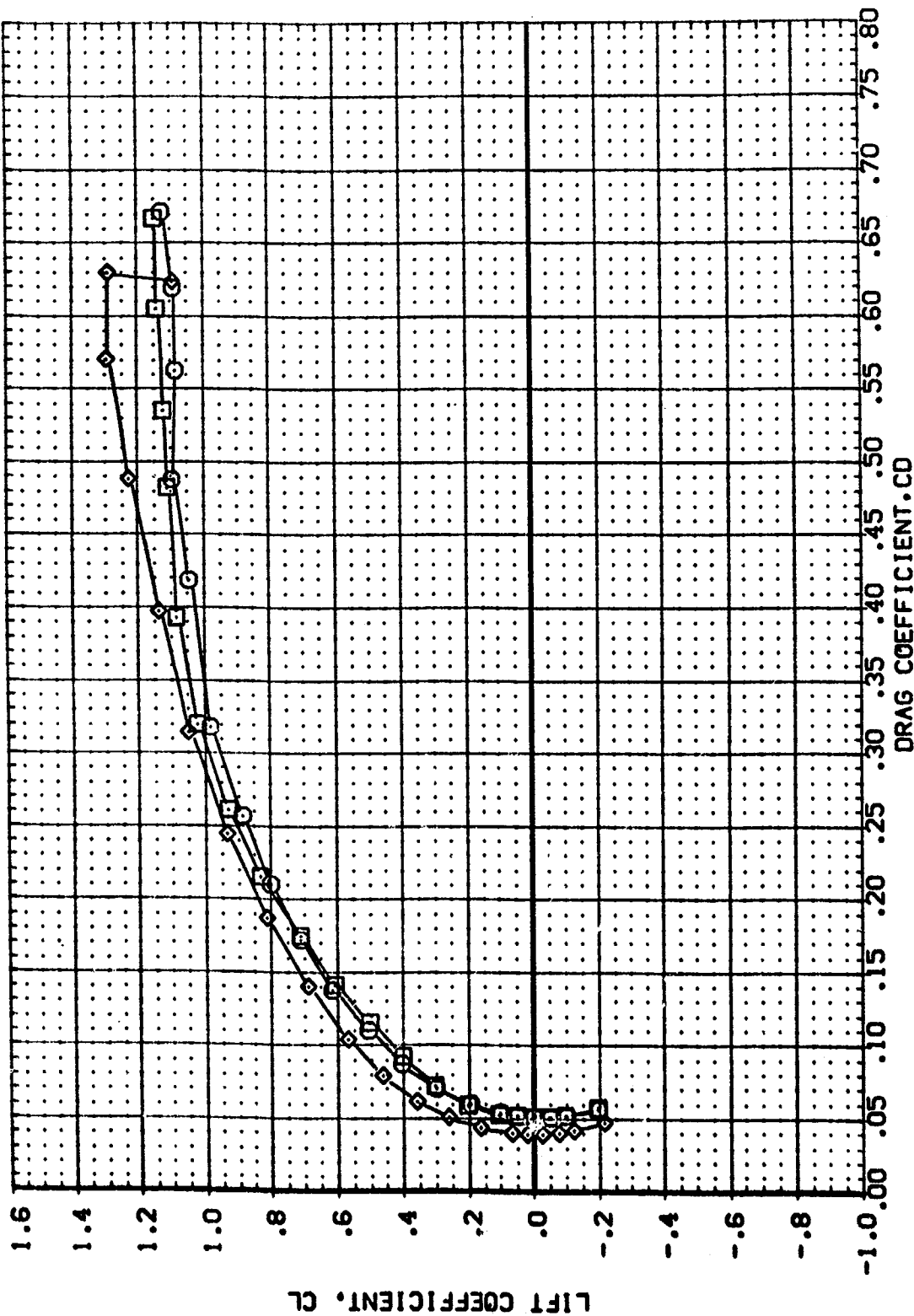
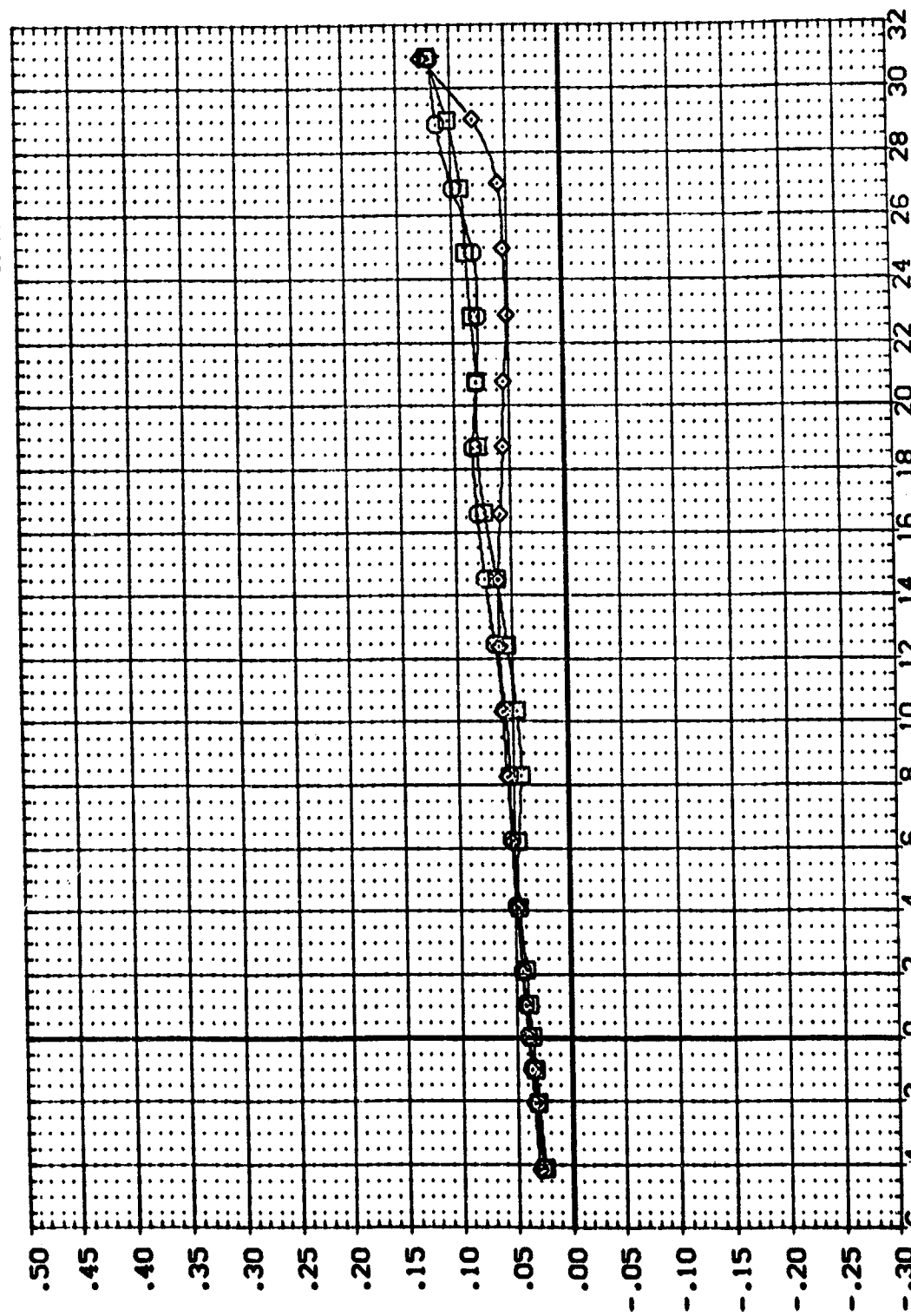


FIG 16 LONG CHAR. SHORT + LONG PYLON OVERWING CLUSTER 6 NAC X0 = 950 AND 1050  
 (A)MACH = .20



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NACX/L	ELEVON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(CDV029)	DA62 B26C9 F8/45W1 16E26V8R5X10	.480	.000	-12.000	.000	SREF 4.4119 50 FT.
(CDV032)	DA62 B26C9 F8/45W1 16E26V8R5X10	.480	.000	-12.000	.000	LREF 19.2299 INCHES
(CDV001)	DA62 B26C9 F8 V116E26V8R5X9		.000	-12.000	.000	BREF 37.5359 INCHES
						XMRP 44.3813 INCHES
						YMRP .0000 INCHES
						ZMRP 15.1875 INCHES
						SCALE .0405

PITCHING MOMENT COEFFICIENT ABOUT AFT CG LIMIT (.675 LB), CLMAFT



ANGLE OF ATTACK, ALPHA, DEGREES

FIG 16 LONG CHAR. SHORT + LONG PYLON OVERWING CLUSTER 6 NAC X0 = 950 AND 1050  
(A)MACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	NACA/L	SPDBRK	RUDDER	REFERENCE INFORMATION
(R0V030)	0A62 B26C9 F8J46V116E26V8F5X10	.000	.480	.000	.000	SREF 4.4119 SO.FT.
(R0V031)	0A62 B26C9 F8J46V116E26V8F5X10	10.000	.480	.000	.000	LREF 19.2299 INCHES
(R0V033)	0A62 B26C9 F8J45V116E26V8F5X10	.000	.480	.000	.000	BREF 37.9359 INCHES
(R0V034)	0A62 B26C9 F8J45V116E26V8F5X10	10.000	.480	.000	.000	YMRP 43.5974 INCHES
(R0V002)	0A62 B26C9 F8 V116E26V8F5X9	.000	.000	.000	.000	ZMRP 15.1875 INCHES
(R0V004)	0A62 B26C9 F8 V116E26V8F5X9	10.000	.000	.000	.000	SCALE .0405

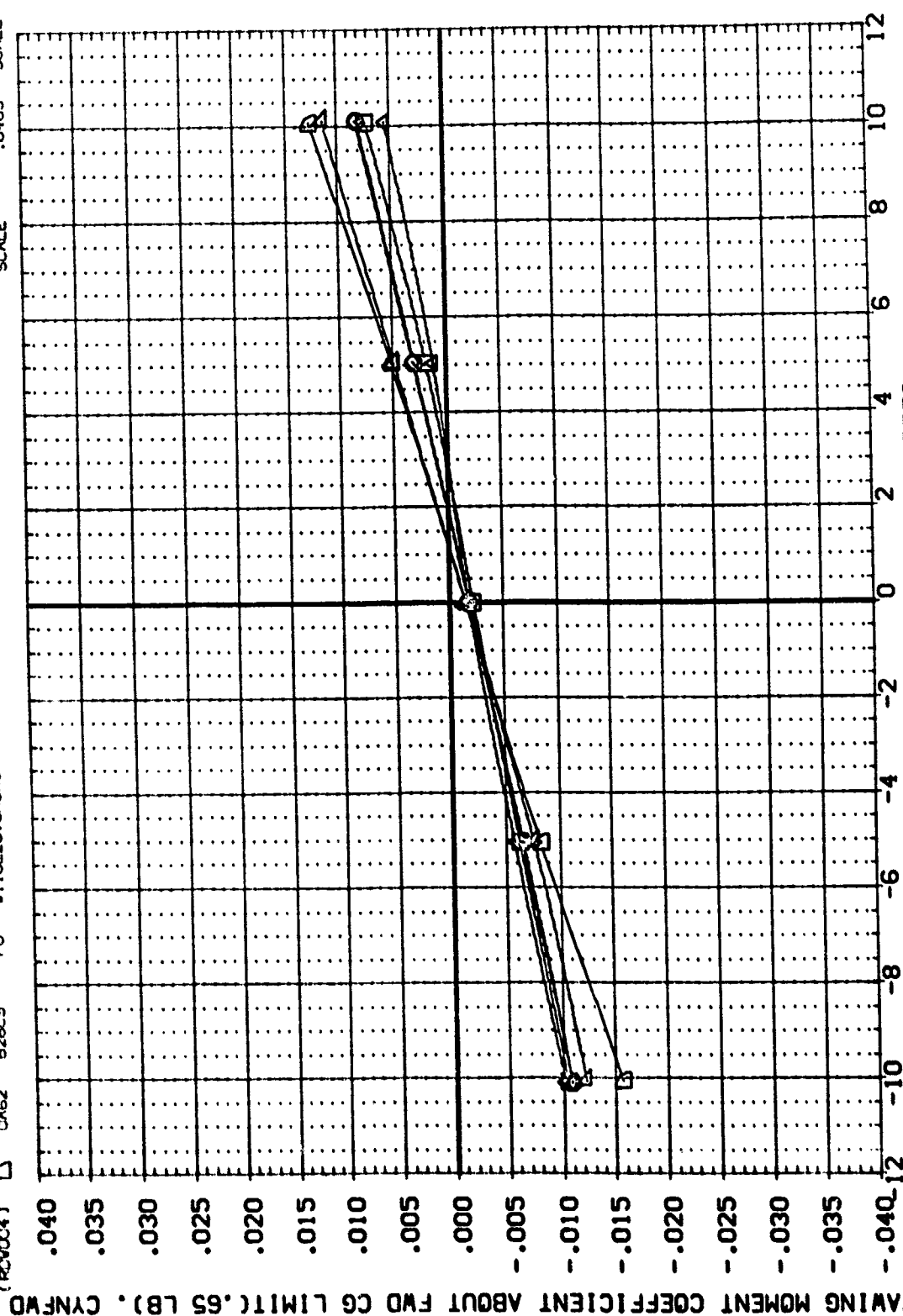


FIG 17 LAT./ DIR. SHORT + LONG PYLON OVERWING CLUSTER 6 NAC X0 = 950 AND 1050  
(A)MACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	NACX/L	SPDRK	RUDDR	REFERENCE INFORMATION
(RQV030)	DA62 B26C9 F8J46V11GE26V85X10	.000	.480	.000	.000	SREF 4.4119 SO.FT.
(RQV031)	DA62 B26C9 F8J46V11GE26V85X10	10.000	.480	.000	.000	LREF 19.2299 INCHES
(RQV033)	DA62 B26C9 F8J45V11GE26V85X10	.000	.480	.000	.000	BREF 37.9359 INCHES
(RQV034)	DA62 B26C9 F8J45V11GE26V85X10	10.000	.480	.000	.000	YMRP 43.5974 INCHES
(RQV003)	DA62 B26C9 F8 J11GE26V85X9	.000	.000	.000	.000	ZMRP 15.0000 INCHES
(RQV004)	DA62 B26C9 F8 J11GE26V85X9	10.000	.000	.000	.000	SCALE .0405 INCHES

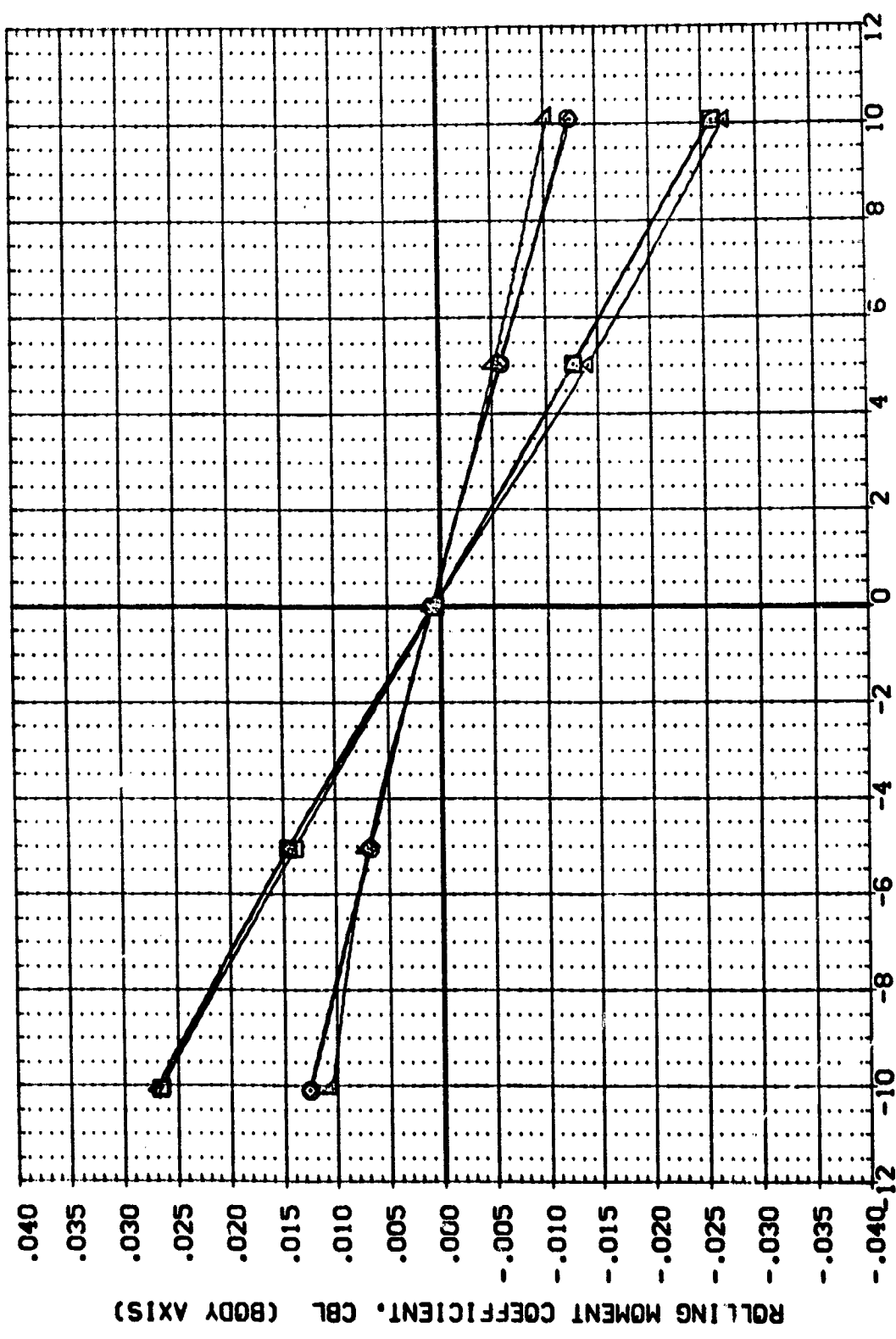


FIG 17 LAT./ DIR. SHORT + LONG PYLON OVERWING CLUSTER 6 NAC X0 = 950 AND 1050

(A)MACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	NACA/L	SPOBRK	RUDER	REFERENCE INFORMATION
(R0V030)	0A62 B26C9 F8J46V116E26VBR5X10	.000	.480	.000	.000	SREF 4.4119 SO.FT.
(R0V031)	0A62 B26C9 F8J46V116E26VBR5X10	10.000	.480	.000	.000	LREF 19.2299 INCHES
(R0V033)	0A62 B26C9 F8J46V116E26VBR5X10	.000	.480	.000	.000	BREF 37.9359 INCHES
(R0V034)	0A62 B26C9 F8J46V116E26VBR5X10	.000	.480	.000	.000	YMRP 43.5974 INCHES
(R0V032)	0A62 B26C9 F8 J V116E26VBR5X9	.000	.000	.000	.000	ZMRP .0000 INCHES
(R0V004)	0A62 B26C9 F8 V116E26VBR5X9	10.000	.000	.000	.000	SCALE 15.1875 INCHES

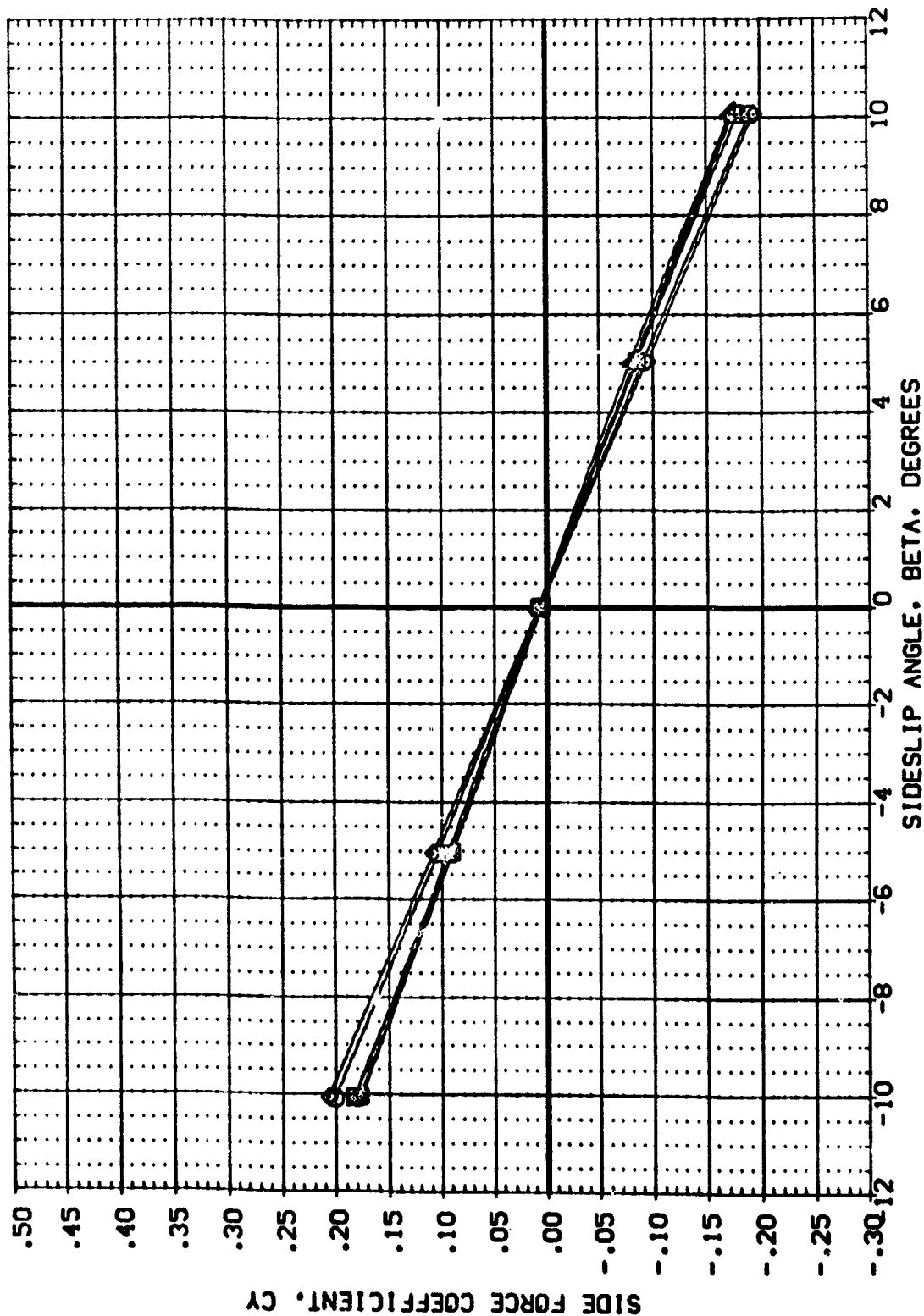
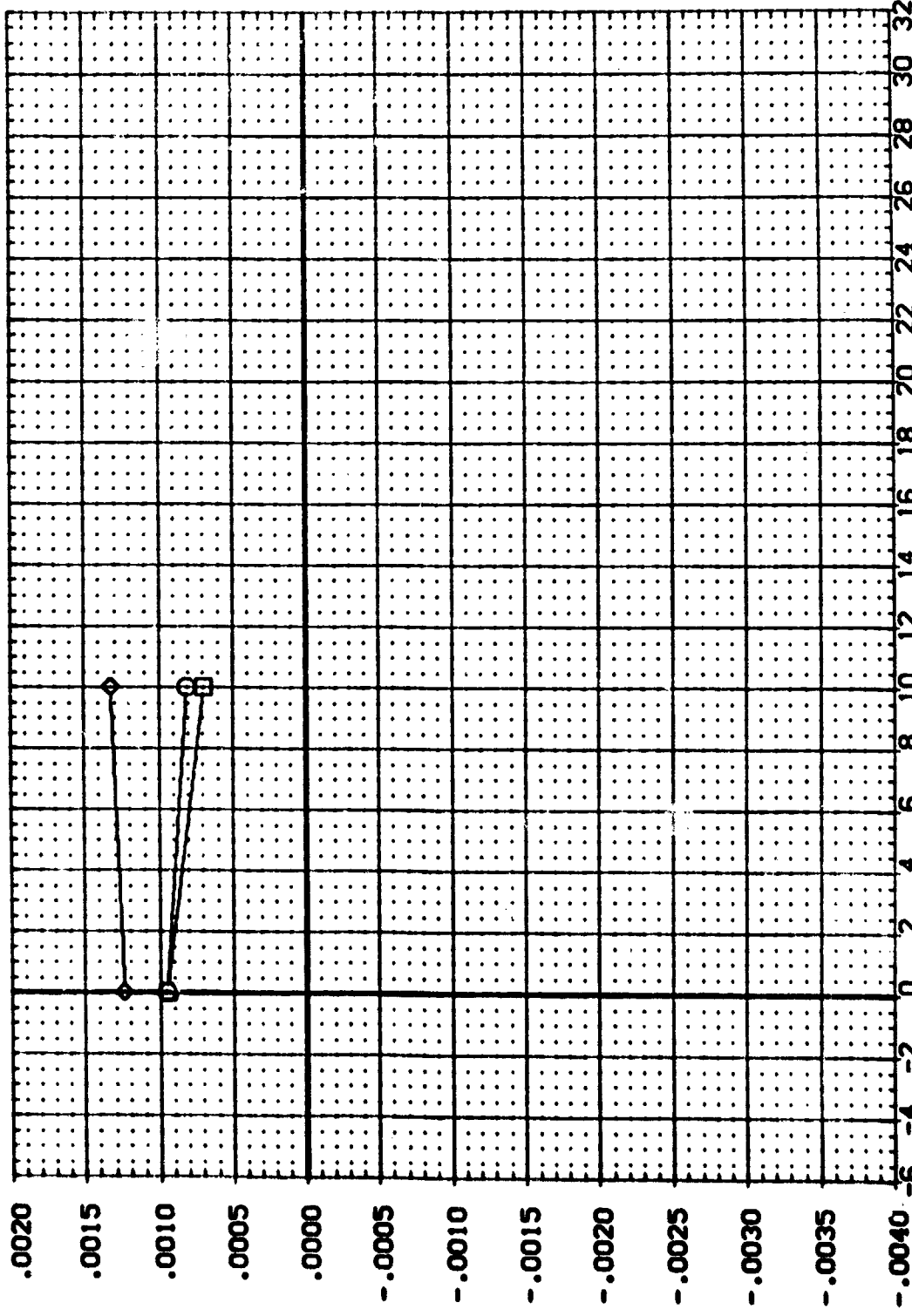


FIG 17 LAT./ DIR. SHORT + LONG PYLON OVERWING CLUSTER 6 NAC X0 = 950 AND 1050  
(A)MACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NACA/L	ELEVON	BD/LAP	SPOBRK	REFERENCE INFORMATION
(EDV030)	0A62 B26C9 F8J4SV116E26V85X10	.480	.000	-12.000	.000	SREF 4.4119 SO.FT.
(EDV033)	0A62 B26C9 F8J4SV116E26V85X10	.480	.000	-12.000	.000	LAREF 19.2299 INCHES
(EDV002)	0A62 B26C9 F8 V116E26V85X9		.000	-12.000	.000	BREF 37.9359 INCHES
						YMRP 43.5974 INCHES
						ZMRP .0000 INCHES
						SCALE 15.1875 INCHES

YAWING MOMENT COEFFICIENT DERIVATIVE WITH BETA, CYMBET. PER DEGREE



ANGLE OF ATTACK, ALPHA, DEGREES

FIG 17 LAT./ DIR. SHORT + LONG PYLON OVERWING CLUSTER 6 NAC X0 = 950 AND 1050

DATA SET SYMBOL  
(EDV030)  
(EDV031)  
(EDV032)

CONFIGURATION DESCRIPTION  
B29C9 FB(4SV)116E26V8R5X10  
B26C9 FB(4SV)116E26V8R5X10  
B26C9 FB V116E26V8R5X9

NACA/E ELEVON BOFLAP SPDRK  
.480 .000 -12.000 .000  
.480 .000 -12.000 .000

REFERENCE INFORMATION  
SREF 4.4119 SO.FT.  
LREF 19.2299 INCHES  
BREF 37.9359 INCHES  
XMRP 43.5974 INCHES  
YMRP .0000 INCHES  
ZMRP 15.1875 INCHES  
SCALE .0405

ROLLING MOMENT COEFFICIENT DERIVATIVE WITH BETA, CBLBET, PER DEGREE

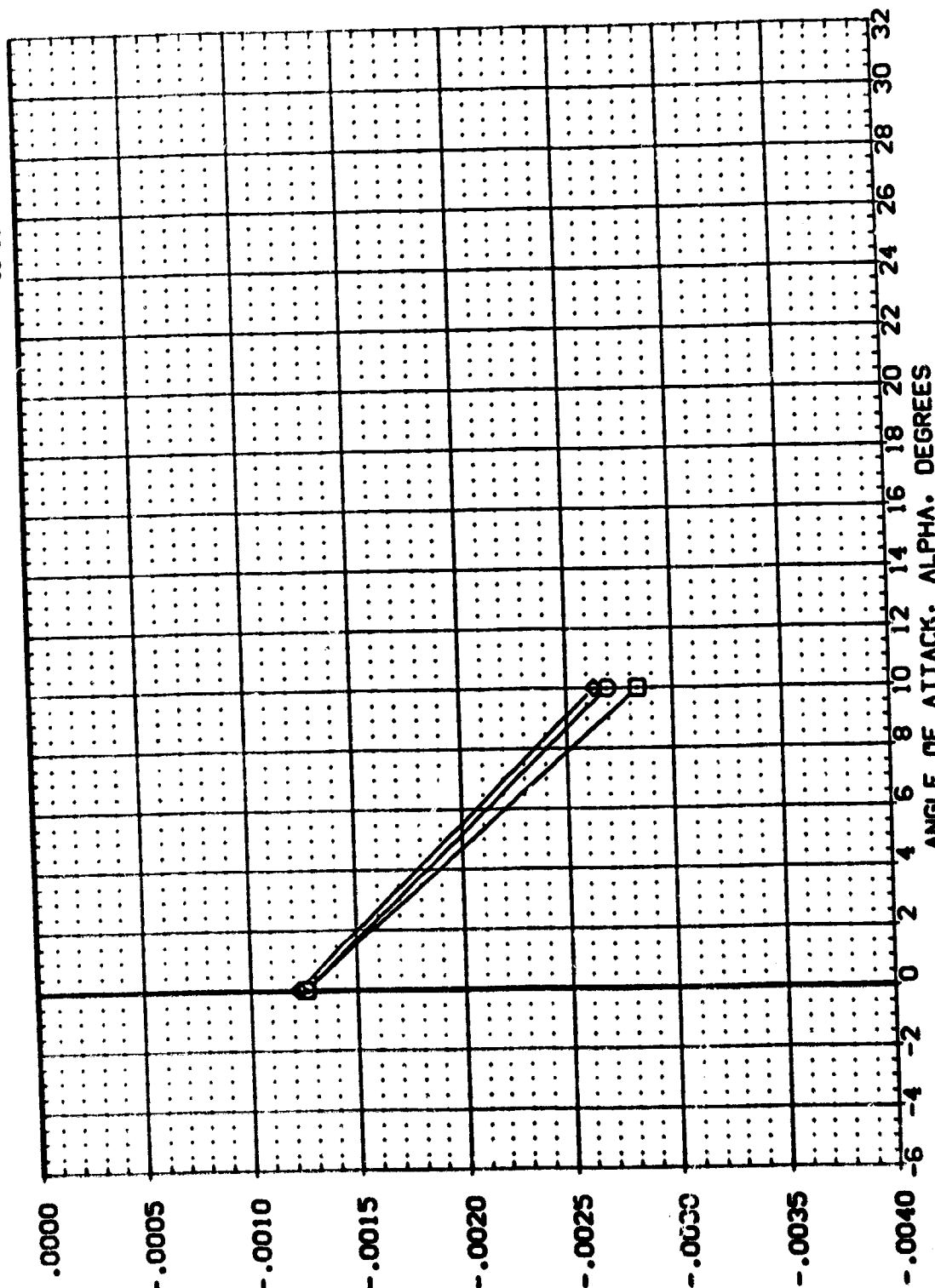


FIG 17 LAT./ DIR. SHORT + LONG PYLON OVERWING CLUSTER 6 NAC X0 = 950 AND 1050



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NACAL	ELEVON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(EDV030)	QAE2 B2PC9	.480	.000	-12.000	.000	SREF 4.4119 50.FT.
(EDV031)	QAE2 B2PC9	.480	.000	-12.000	.000	LREF 19.2299 INC-ES
(EDV032)	QAE2 B2PC9	.480	.000	-12.000	.000	BREF 37.9359 INC-ES
(EDV033)	QAE2 B2PC9	.480	.000	-12.000	.000	XREF 43.5974 INC-ES
(EDV034)	QAE2 B2PC9	.480	.000	-12.000	.000	YREF .0000 INC-ES
(EDV035)	QAE2 B2PC9	.480	.000	-12.000	.000	ZREF 15.1875 INC-ES
(EDV036)	QAE2 B2PC9	.480	.000	-12.000	.000	SCALE .0405

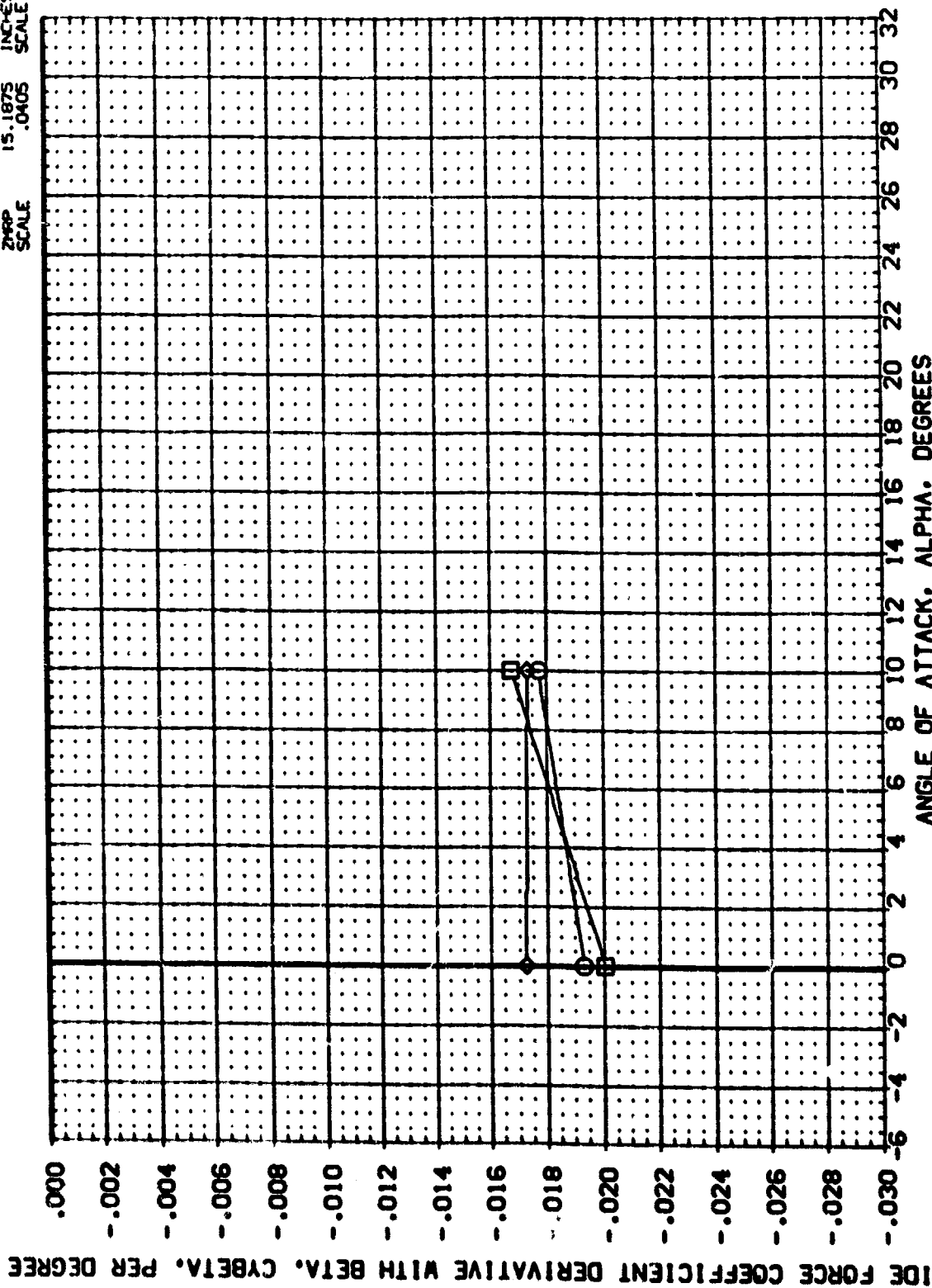


FIG 17 LAT./ DIR. SHORT + LONG PYLON OVERWING CLUSTER 6 NAC X0 = 950 AND 1050

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (ADVOJ5) 8 DAG2 B26C9 FB148V11EE26VBRX10  
 (ADVO44) 8 DAG2 B26C9 FB148V11EE26VBRX10  
 (ADVO01) 8 DAG2 B26C9 FB11EE26VBRX9

NACX/L ELEVON BOFLAP SPOBRK  
 .480 .000 -12.000 .000  
 .730 .000 -12.000 .000  
 .000 .000 -12.000 .000

REFERENCE INFORMATION  
 SREF 4.4119 SO.FT  
 LREF 19.2298 INCHES  
 BREF 37.9359 INCHES  
 XMRP 43.5974 INCHES  
 YMRP .0000 INCHES  
 ZMRP 15.1875 INCHES  
 SCALE .0405

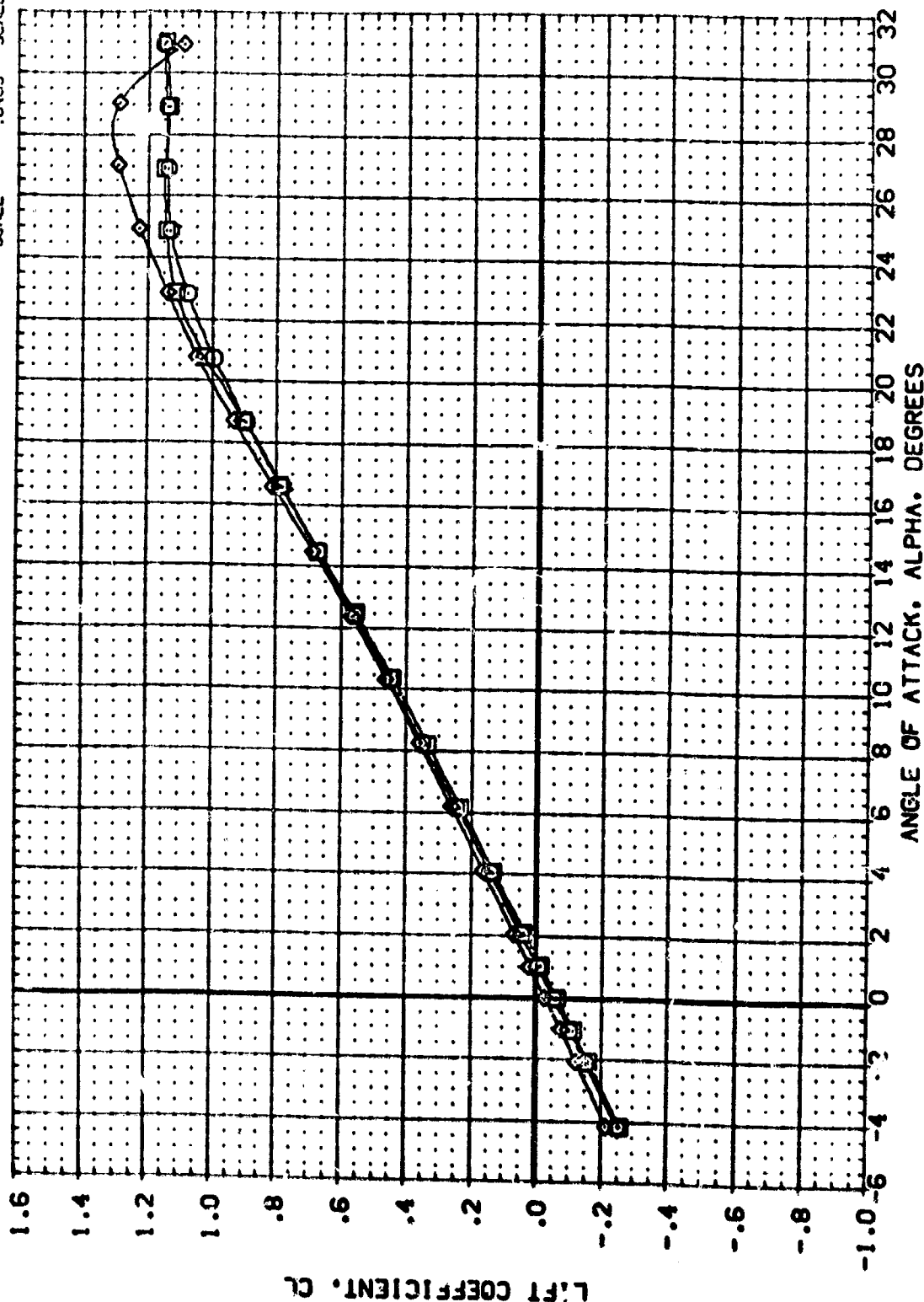


FIG 18 LONGITUDINAL CHAR. FLUSH MOUNT CLUSTER 6 NAC X0 =1050 AND 1100  
 (A)MACH = .20 PAGE 120



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(ADV035)	DA62	B26C9	F8J48V116E26V8RSX10
(ADV044)	DA62	B26C9	F8J48V116E26V8RSX10
(ADV0C1)	DA62	B26C9	F8 V116E26V8RSX9

NACX/L ELEVON BOFLAP SPOBRK

.480	.000	-12.000	.000
.730	.000	-12.000	.000

REFERENCE INFORMATION

SREF	4.4119	50 FT.
LREF	19.2299	INCHES
BREF	37.5359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	15.1875	INCHES
SCALE	.0405	INCHES

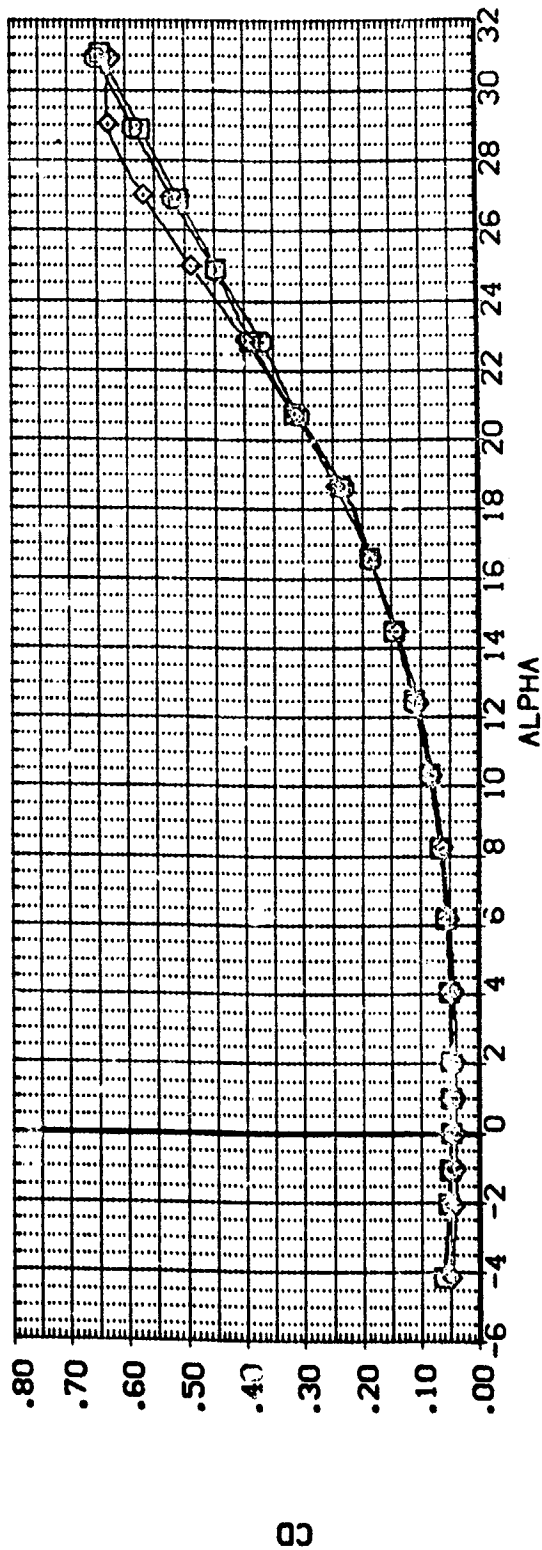
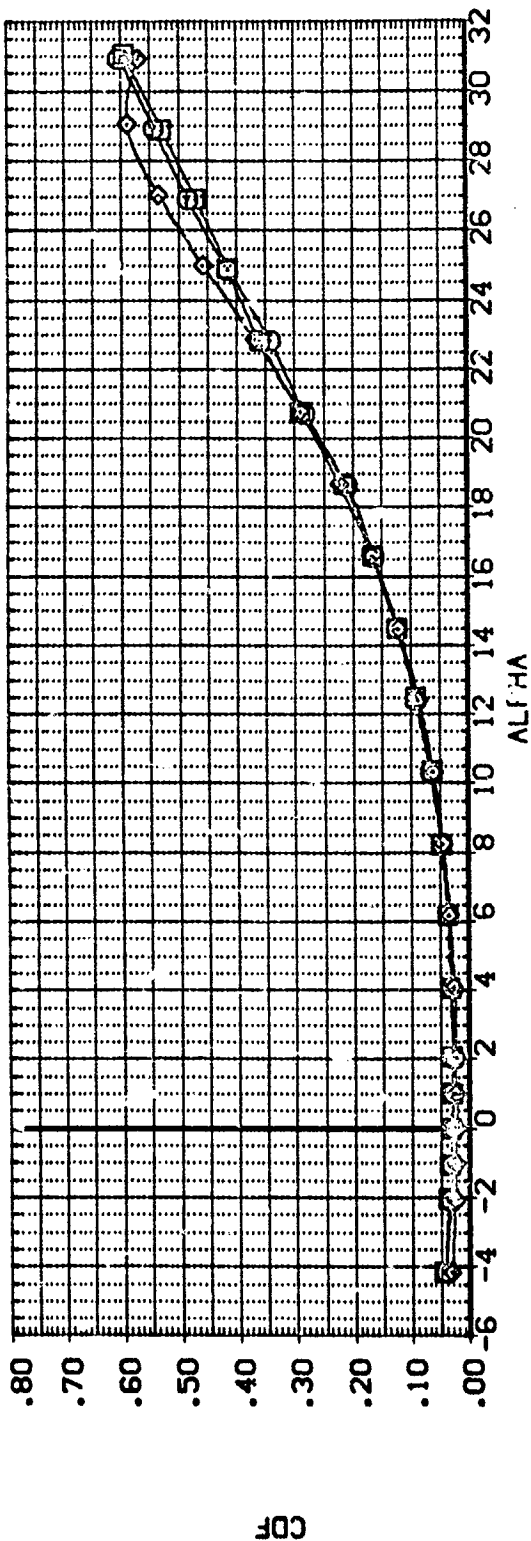


FIG 18 LONGITUDINAL CHAR.

(M)MACH = .20

FLUSH MOUNT CLUSTER 6 NAC X0 = 1050 AND 1100

DATA SET SYMBOL  
(ADVC.75)  
(ADVC.14)  
(DVC01)

CONFIGURATION DESCRIPTION  
QAG2 B26C9 FB/48V116E26V8RSX10  
QAG2 B26C9 FB/48V116E26V8RSX10  
QAG2 B26C9 FB V116E26V8RSX9

NACX/L ELEVON BOFLAP SPOBRK  
.480 .000 -12.000 .000  
.730 .000 -12.000 .000

REFERENCE INFORMATION  
SREF 4.4119 SQ.FT.  
LREF 19.2299 INCHES  
BREF 37.9359 INCHES  
XMRP 43.5974 INCHES  
YMRP .0000 INCHES  
ZMRP 15.1875 INCHES  
SCALE .0405

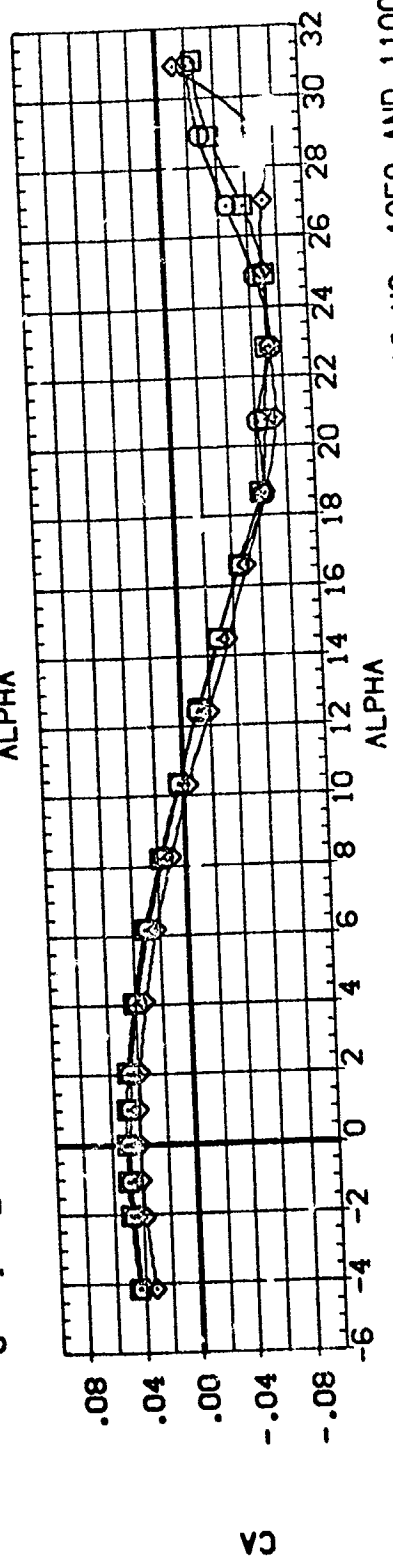
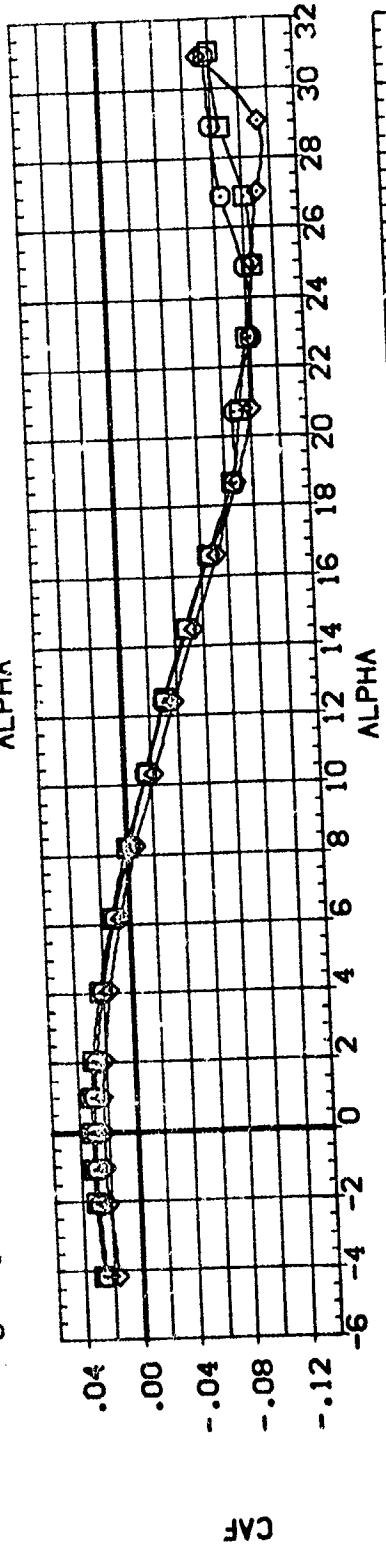
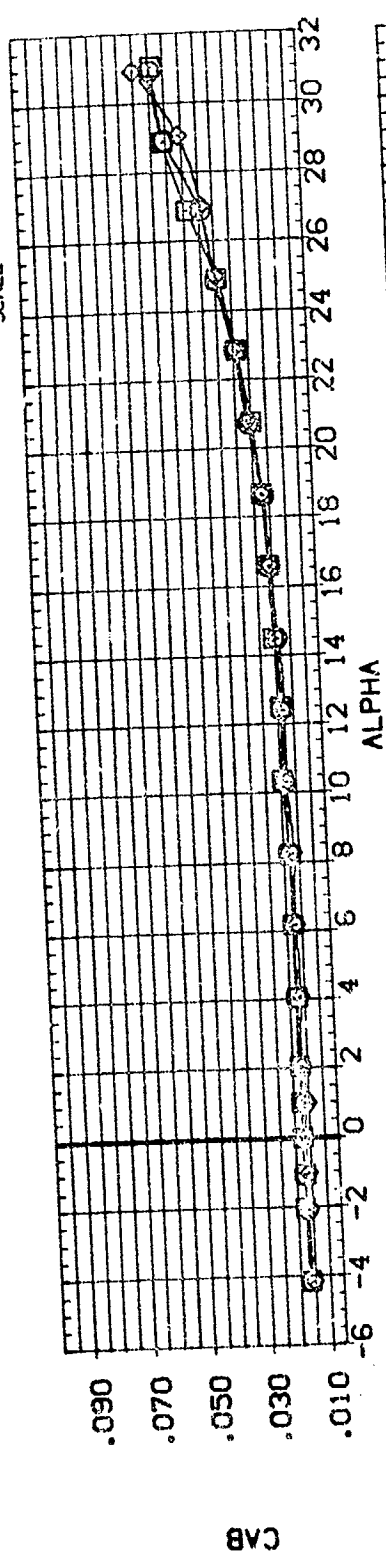
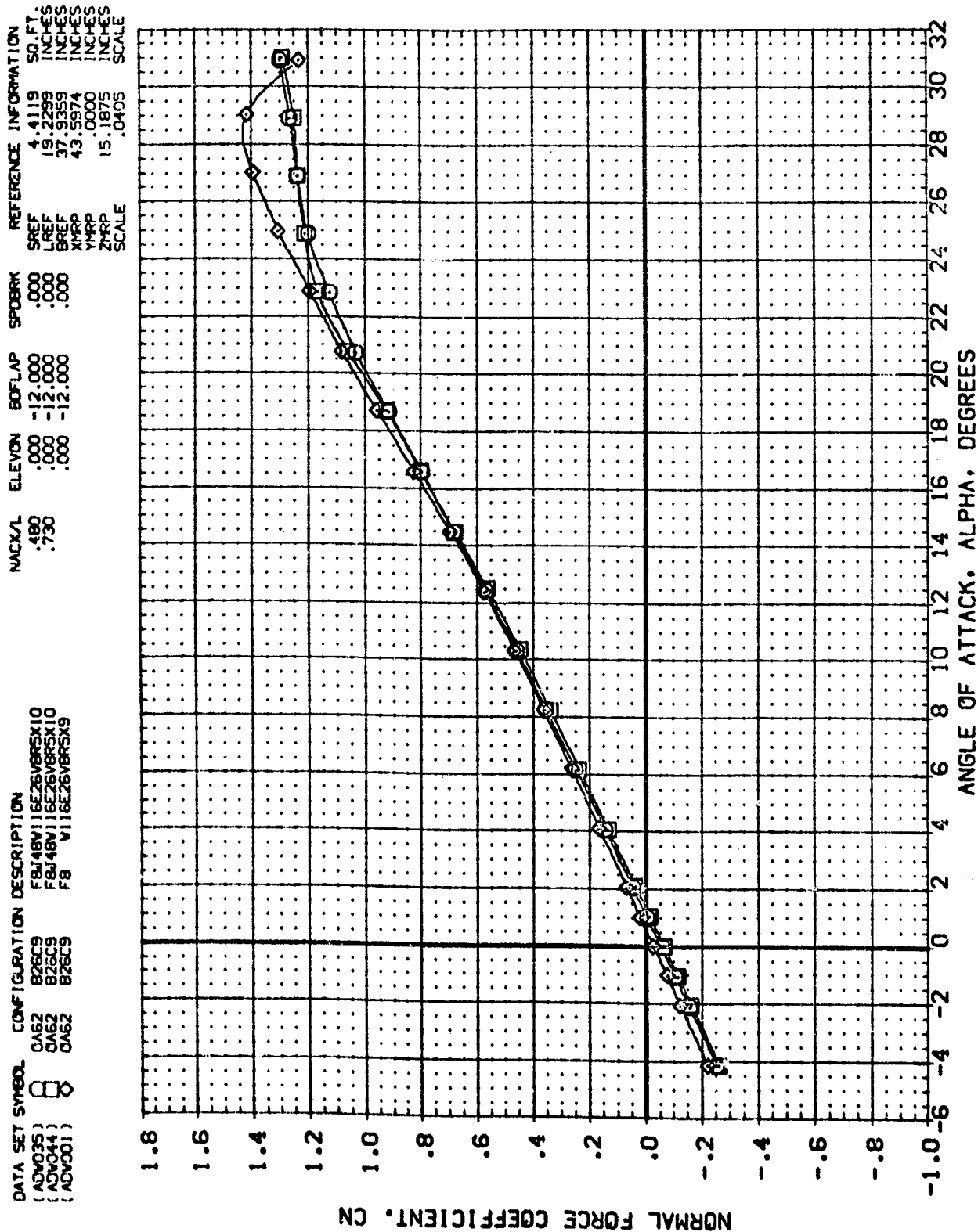


FIG 18 LONGITUDINAL CHAR.

(A)MACH = .20

FLUSH MOUNT CLUSTER 6 NAC X0 =1050 AND 1100  
PAGE 122



DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (ADVO35) OA62 B26C9 FB/48V116E26V85X10  
 (ADVO44) OA62 B26C9 FB/48V116E26V85X10  
 (ADVO01) OA62 B26C9 FB V116E26V85X9

NACX/L ELEVON BDF/LAP SPDBRK  
 .480 .000 -12.000 .000  
 .730 .000 -12.000 .000

REFERENCE INFORMATION  
 SREF 4.4119 SO.FT.  
 LREF 19.2298 INCHES  
 BREF 37.5359 INCHES  
 YMRP 43.5974 INCHES  
 ZMRP .0000 INCHES  
 SCALE 15.1875 INCHES  
 .0405 SCALE

PITCHING MOMENT COEFFICIENT ABOUT FWD CG LIMIT (.65 LB). CLMFW

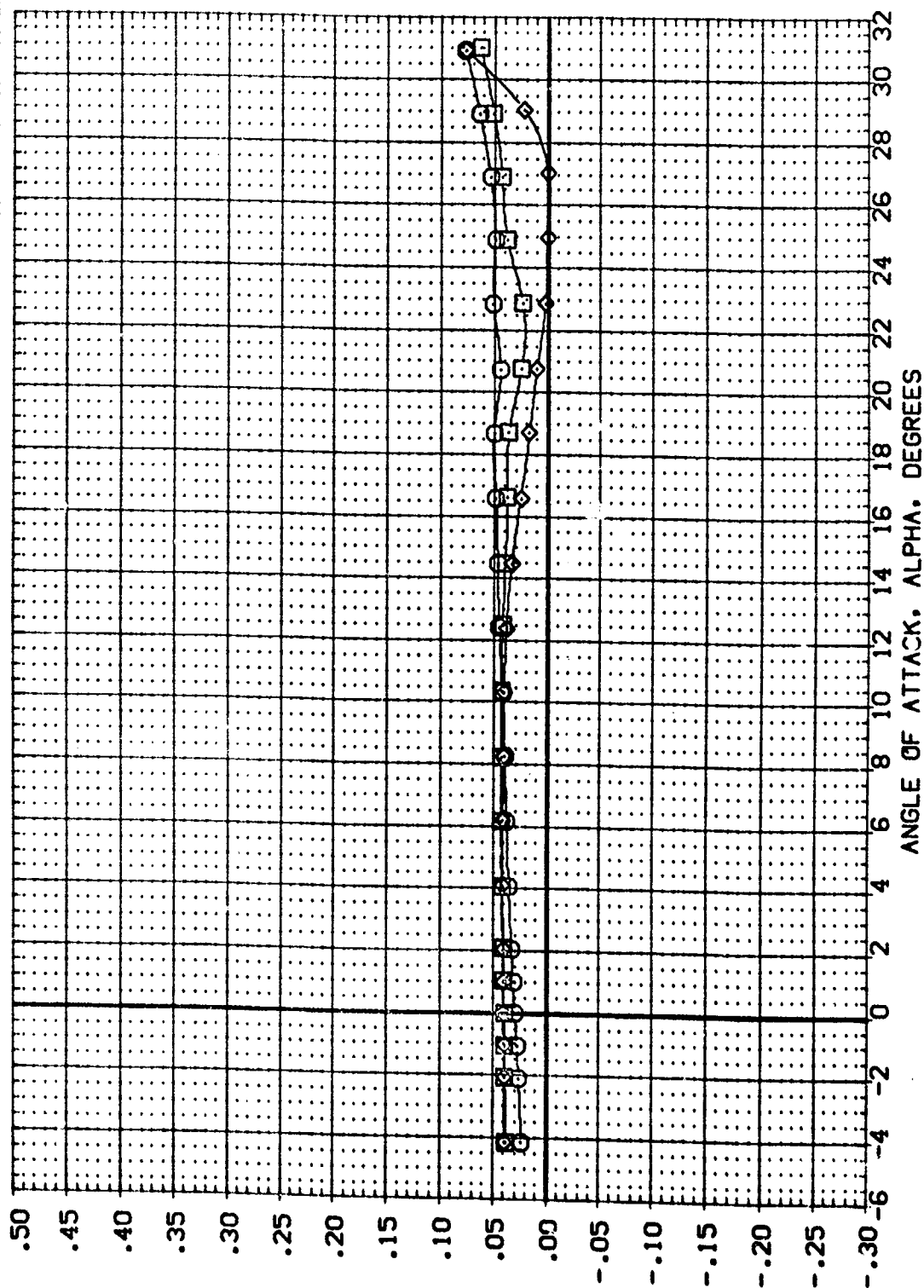


FIG 18 LONGITUDINAL CHAR.

FLUSH MOUNT CLUSTER 6 NAC X0 = 1050 AND 1100

(A)MACH = .20

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (ADV035) 0.62 B26C9 FB/48V116E26V8KX10  
 (ADV044) 0.62 B26C9 FB/48V116E26V8KX10  
 (ADV001) 0.62 B26C9 FB V116E26V8KX5

NACX/L ELEVON BOFLAP SPOBRK REFERENCE INFORMATION  
 .480 .000 -12.000 .000 4.4119 SO.FT.  
 .730 .000 -12.000 .000 19.2259 INCHES  
 .000 .000 -12.000 .000 37.9359 INCHES  
 .000 .000 -12.000 .000 43.5974 INCHES  
 .000 .000 -12.000 .000 .0000 INCHES  
 .000 .000 -12.000 .000 15.1875 INCHES  
 .0405 SCALE

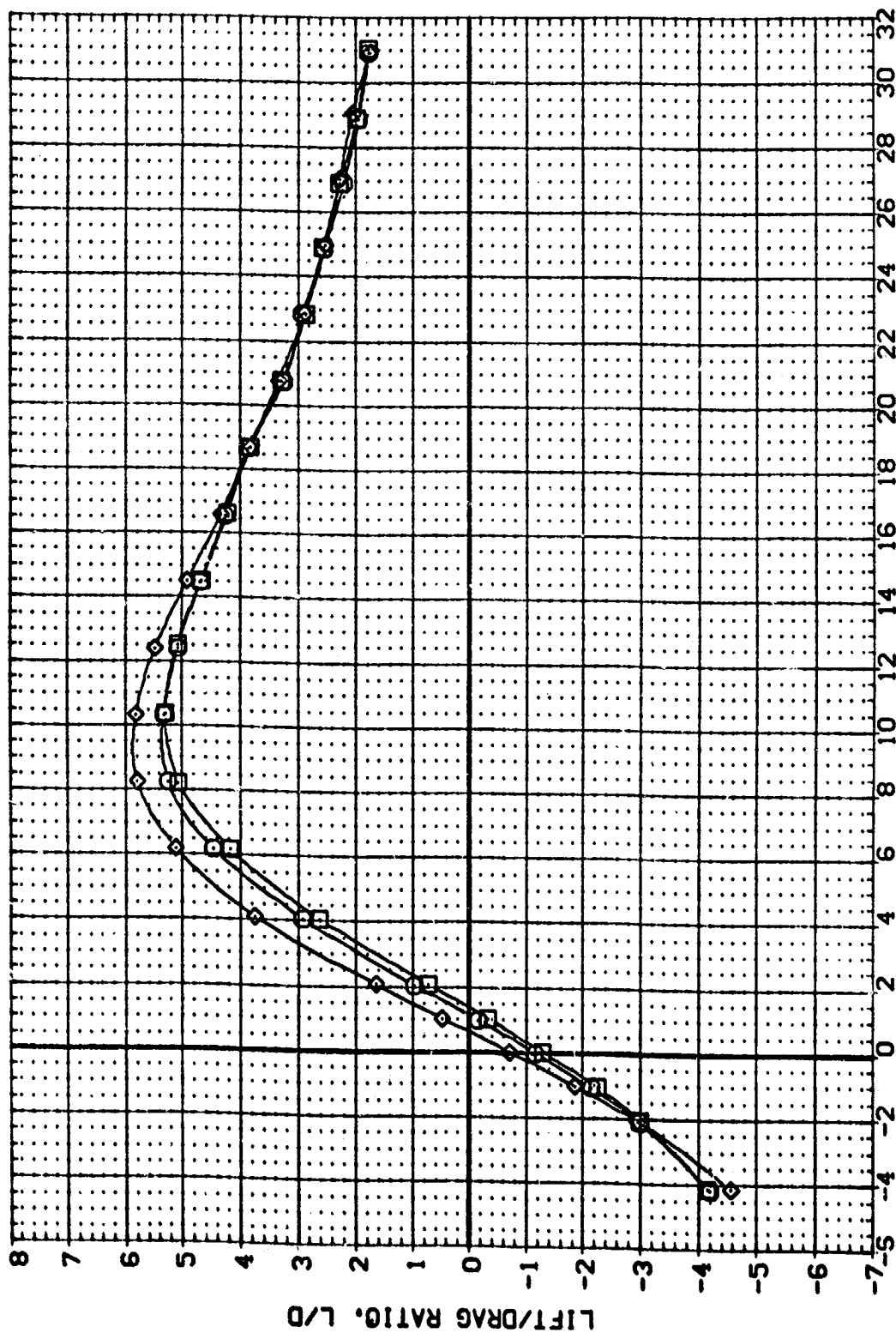


FIG 18 LONGITUDINAL CHAR. FLUSH MOUNT CLUSTER 6 NAC X0 =1050 AND 1100  
 (A)MACH = .20  
 PAGE 125

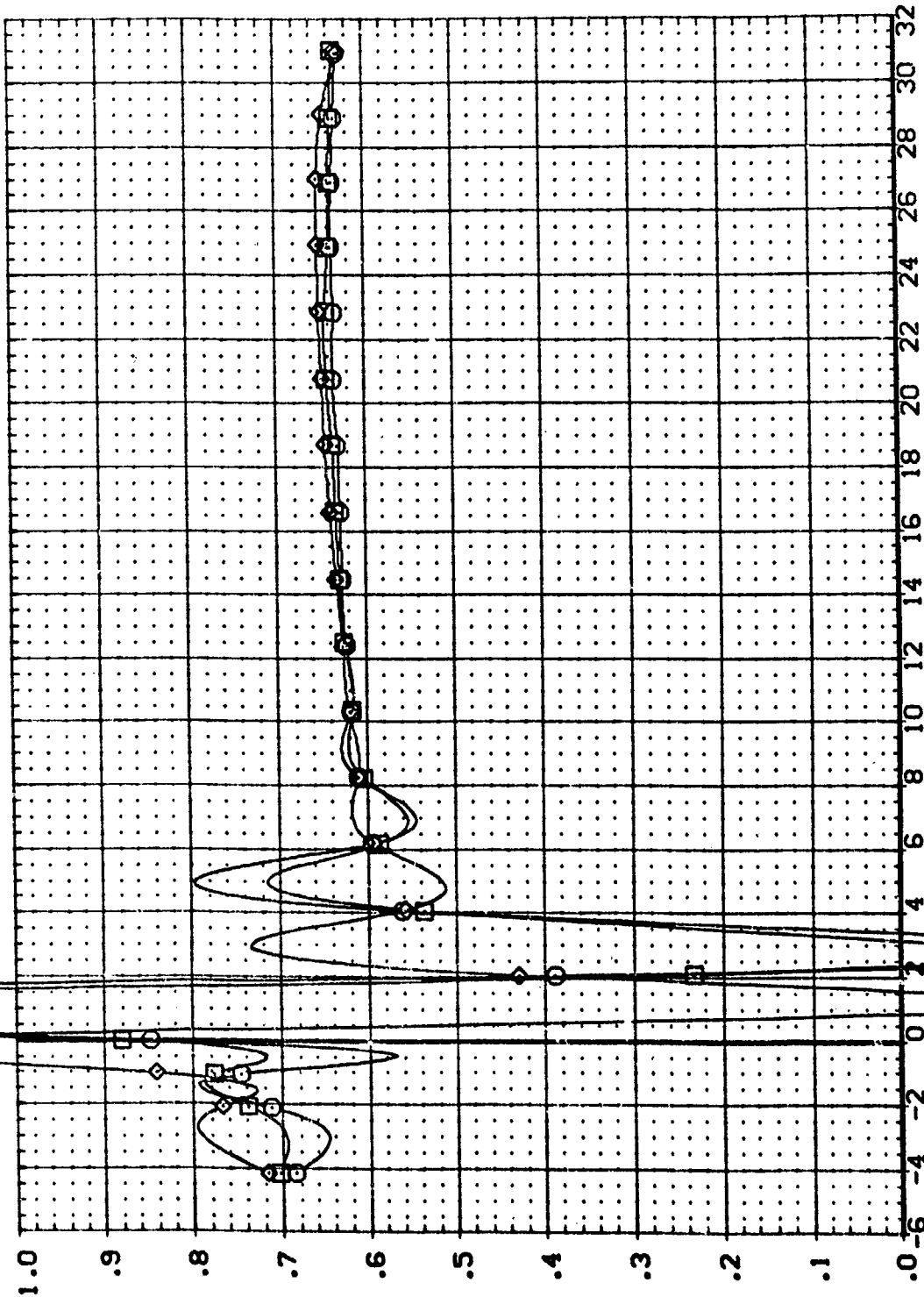
LONGITUDINAL CENTER OF PRESSURE LOCATION, FRACTION BODY LENGTH XCP/L

DATA SET SYMBOL CONFIGURATION DESCRIPTION

MACX/L ELEVON BOFLAP SPOBRK

REFERENCE INFORMATION

SO.FT. INCHES



ANGLE OF ATTACK, ALPHA, DEGREES

FIG 18 LONGITUDINAL CHAR.

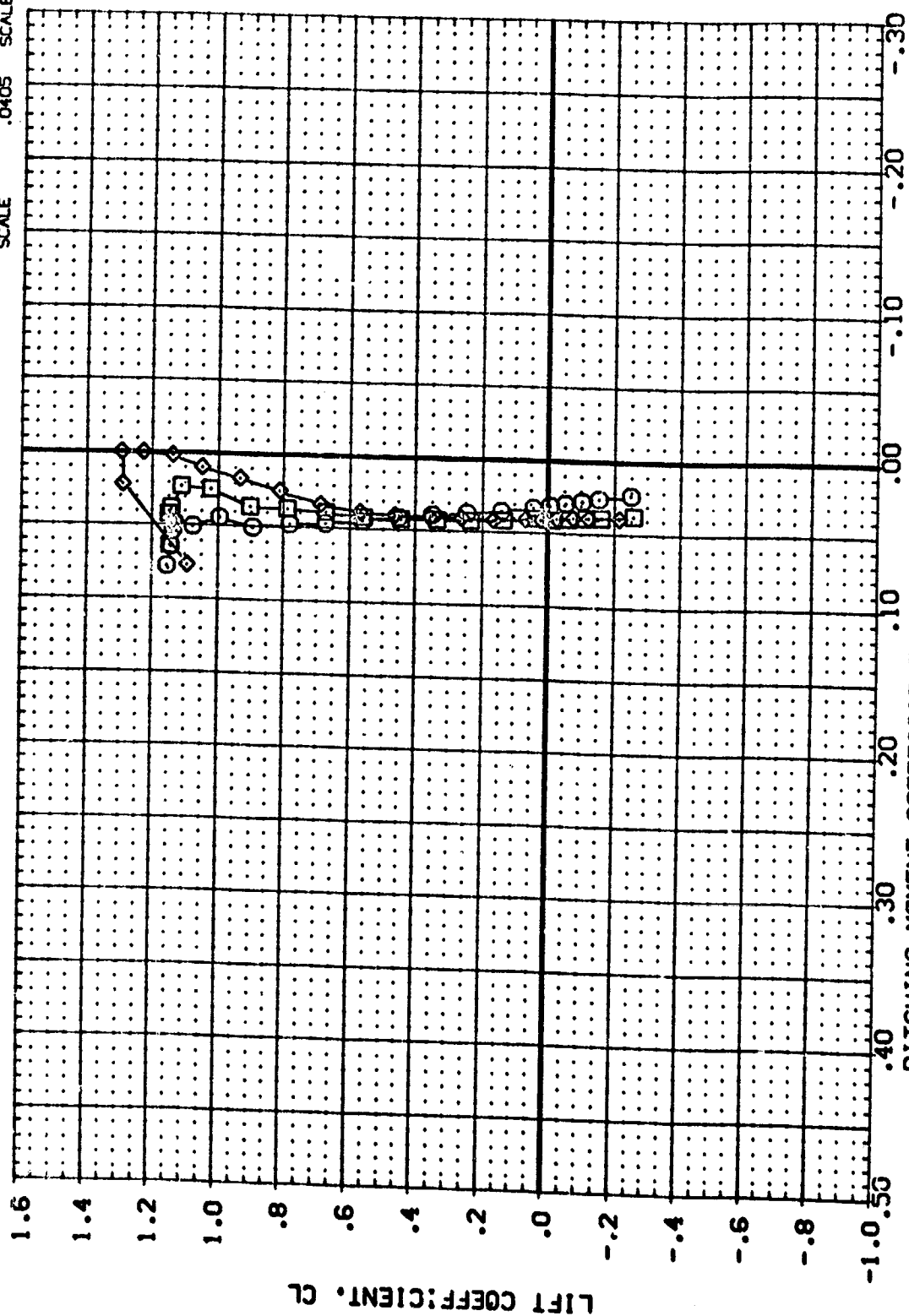
(A)MACH = .20

FLUSH MOUNT CLUSTER 6 NAC X0 =1050 AND 1100

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (ADVO25) 0A62 B26C9 FB/J48V/16E26V8RSX10  
 (ADVO41) 0A62 B26C9 FB/J48V/16E26V8RSX10  
 (ADVO41) 0A62 B26C9 FB V/16E26V8RSX9

NACX/L ELEVON BOFLAP SPOBRK  
 .480 .000 -12.000 .000  
 .730 .000 -12.000 .000

REFERENCE INFORMATION  
 SREF 4.4119 50. FT.  
 LREF 19.2299 INCHES  
 BREF 37.9359 INCHES  
 XMRP 43.5974 INCHES  
 YMRP .0000 INCHES  
 ZMRP 15.1875 INCHES  
 SCALE .0405



PITCHING MOMENT COEFFICIENT ABOUT FWD CG LIMIT (.65 LB). CLMFWO

FIG 18 LONGITUDINAL CHAR.

FLUSH MOUNT CLUSTER 6 NAC X0 =1050 AND 1100

(A)MACH = .20

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (ADV035) D462 B26C9 FB448V116E26V85X10  
 (ADV044) D462 B26C9 FB448V116E26V85X10  
 (ADV001) D462 B26C9 F9 V116E26V85X9

NACX/L ELEVON BOFLAP SPOBRK REFERENCE INFORMATION  
 .480 .000 .000 .000 4.4119 50. FT.  
 .730 .000 .000 .000 19.2289 INCHES  
 .000 .000 .000 .000 37.9359 INCHES  
 .000 .000 .000 .000 43.5574 INCHES  
 .000 .000 .000 .000 15.1875 INCHES  
 .0405 SCALE

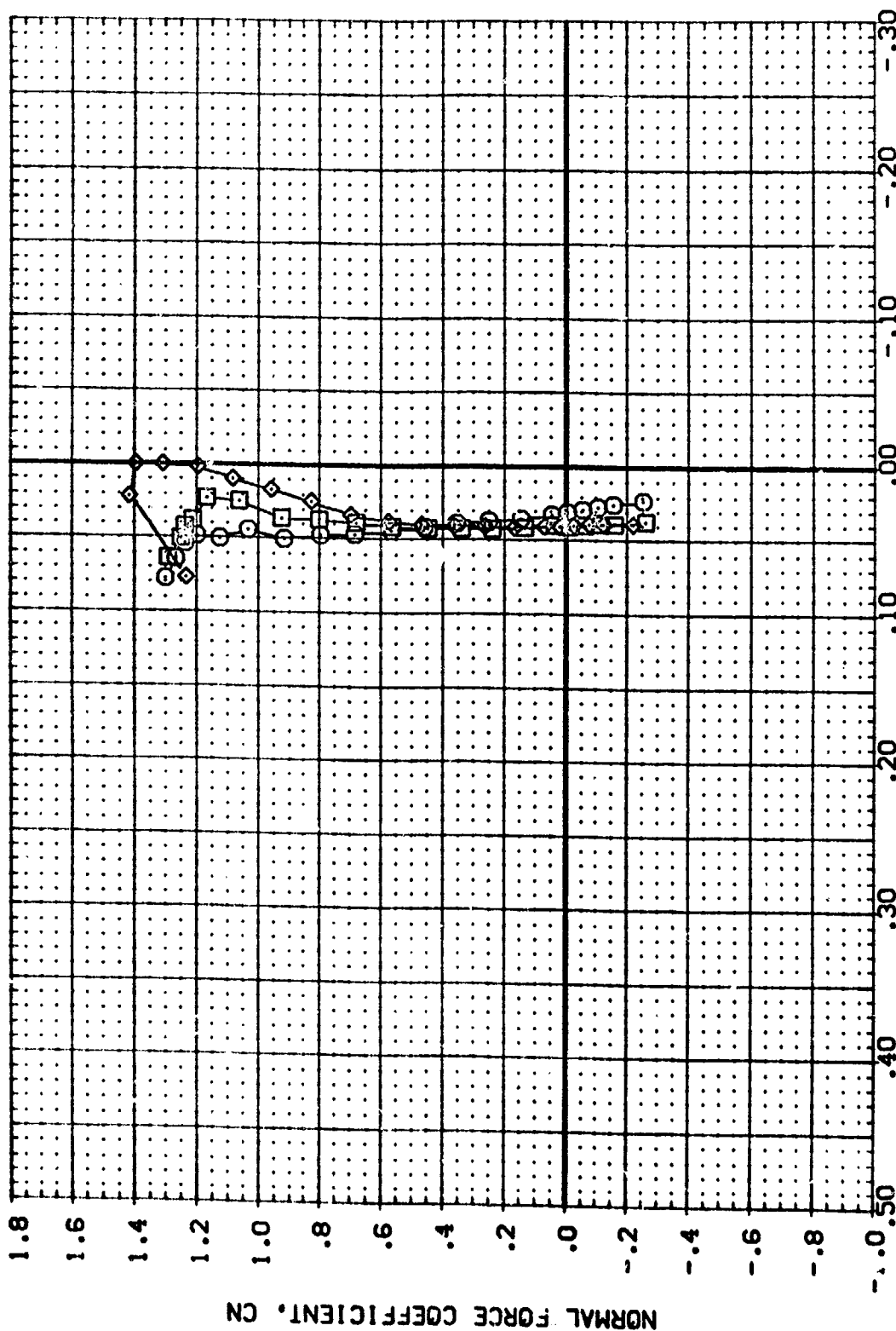


FIG 18 LONGITUDINAL CHAR. FLUSH MOUNT CLUSTER 6 NAC X0 =1050 AND 1100

(A)MACH = 20



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NACX/L	ELEVON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(ADV035)	QAE2 B2EC9	.480	.000	-12.000	.000	SREF 4.4119 50.FT.
(ADV044)	QAE2 B2EC9	.730	.000	-12.000	.000	LREF 19.2299 INCHES
(ADV001)	QAE2 B2EC9		.000	-12.000	.000	BREF 37.9359 INCHES
						XREF 43.5974 INCHES
						YREF 15.1875 INCHES
						ZREF 15.1875 INCHES
						SCALE .0405

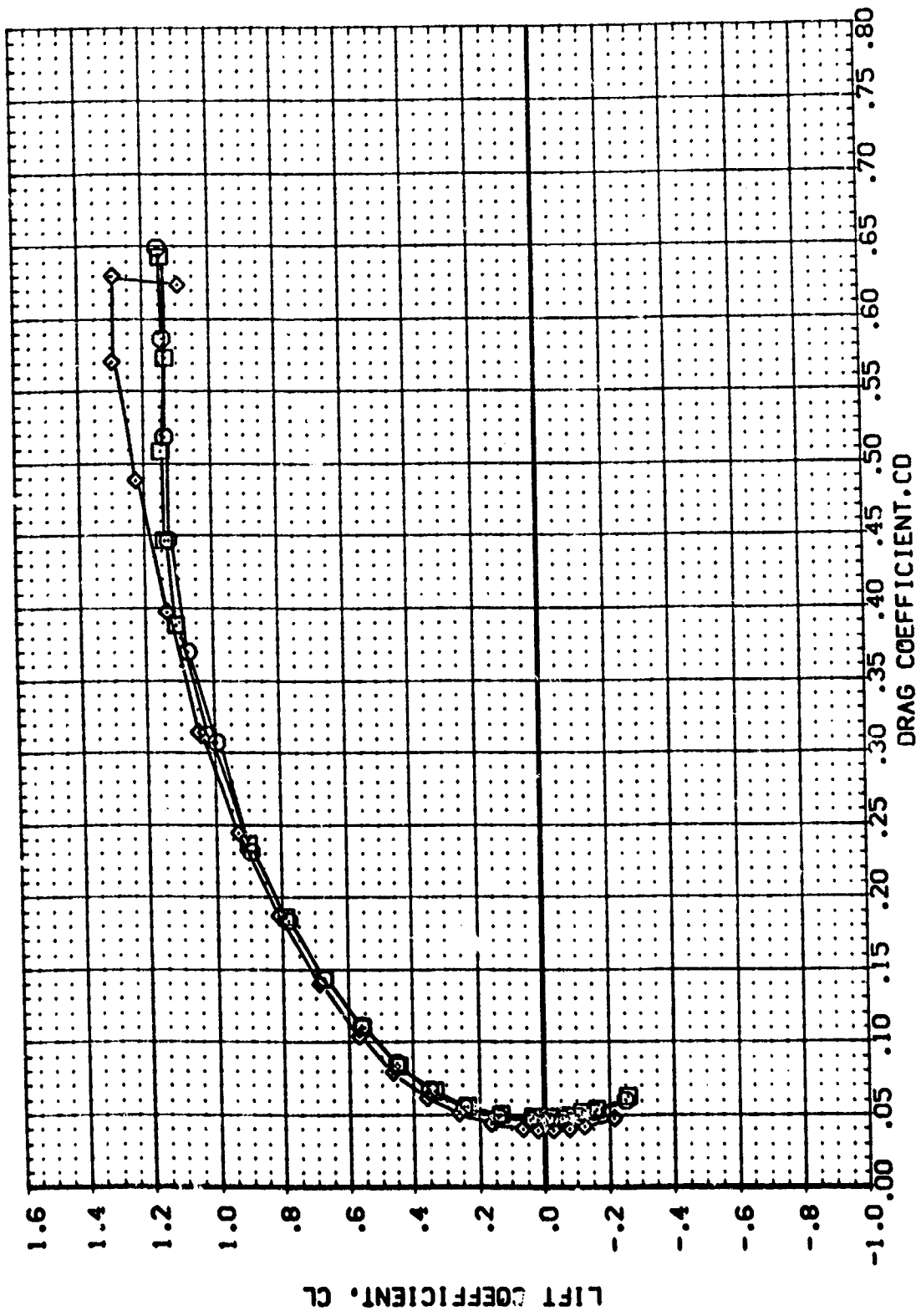


FIG 18 LONGITUDINAL CHAR. FLUSH MOUNT CLUSTER 6 NAC X0 =1050 AND 1100  
 (A)MACH = .20  
 DRAG COEFFICIENT, CD  
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DATA SET SYMBOL  
(CDV035)  
(CDV044)  
(CDV001)

CONFIGURATION DESCRIPTION  
B26C9  
B26C9  
B26C9  
F8J48V116E26V8RSX10  
F8J48V116E26V8RSX10  
F8 V116E26V8RSX5

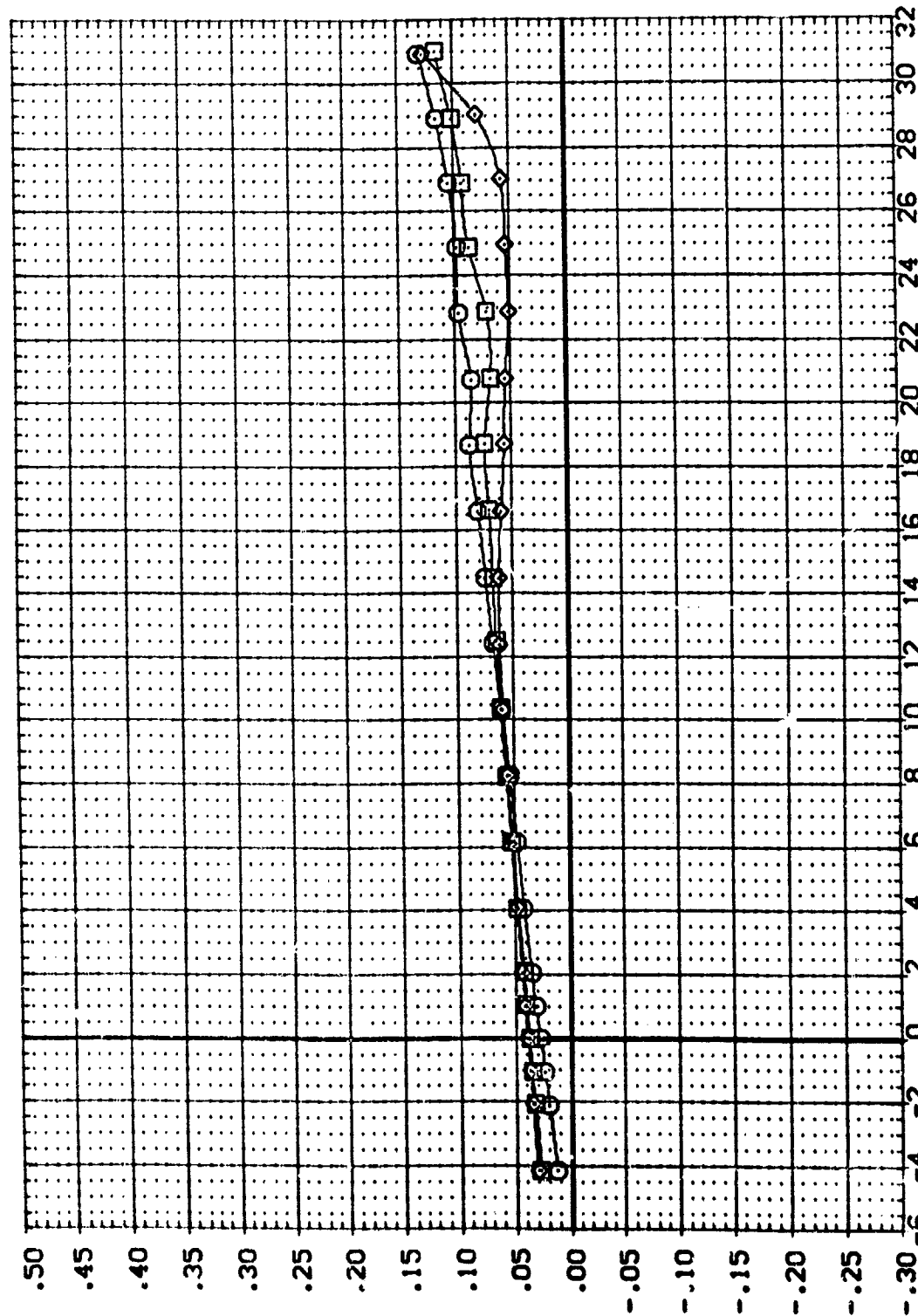
NACX/L  
480  
.730

ELEVON  
.000  
.000  
.000

BOFLAP  
-12.000  
-12.000  
-12.000

SPOBRK  
.000  
.000  
.000

PITCHING MOMENT COEFFICIENT ABOUT AFT CG LIMIT (.275 LB), CLMFT



ANGLE OF ATTACK, ALPHA, DEGREES

FLUSH MOUNT CLUSTER 6 NAC X0 =1050 AND 1100

FIG 18 LONGITUDINAL CHAR.

(A)MACH = .20

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	NACA/L	SPOBRK	RUDER	REFERENCE INFORMATION	SO. FT.
(R0V036)	0A62 B26C9	.000	.480	.000	.000	SREF	4.4119
(R0V037)	0A62 B26C9	10.000	.480	.000	.000	LREF	19.2299
(R0V045)	0A62 B26C9	.000	.730	.000	.000	BREF	37.9359
(R0V046)	0A62 B26C9	10.000	.730	.000	.000	XMRP	43.5974
(R0V002)	0A62 B26C9	.000		.000	.000	YMRP	.0000
(R0V004)	0A62 B26C9	10.000		.000	.000	ZMRP	15.1875
						SCALE	.0405

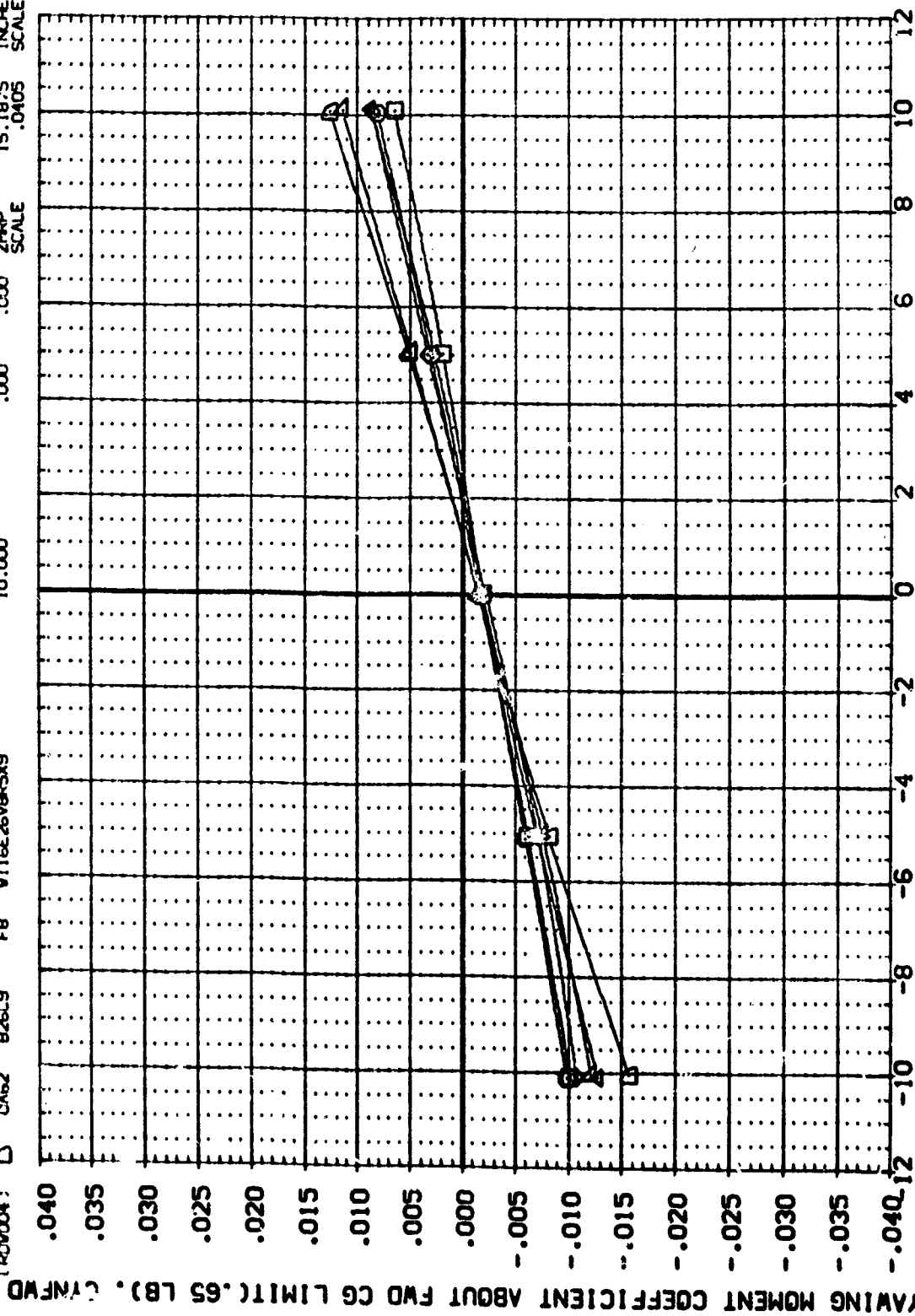


FIG 19 LATERAL - DIRECTIONAL CHAR FLUSH MOUNT CLUSTER 6 NAC X0 =1050 AND 1100

(A)MACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	NACA/L	SPOBRK	RUDER	REFERENCE INFORMATION
(RDV036)	DA62 B26C9 FB/48V116E26VBR5X10	.000	.480	.000	.000	SREF 4.4119 SO.FT.
(RDV037)	DA62 B26C9 FB/48V116E26VBR5X10	10.000	.480	.000	.000	LREF 19.2299 INCHES
(RDV045)	DA62 B26C9 FB/48V116E26VBR5X10	.000	.730	.000	.000	BREF 37.9359 INCHES
(RDV046)	DA62 B26C9 FB/48V116E26VBR5X10	10.000	.730	.000	.000	XMRP 43.5374 INCHES
(RDV002)	DA62 B26C9 FB V116E26VBR5X9	.000	.000	.000	.000	YMRP .0000 INCHES
(RDV004)	DA62 B26C9 FB V116E26VBR5X9	10.000	.000	.000	.000	ZMRP 15.1875 INCHES
						SCALE .0405

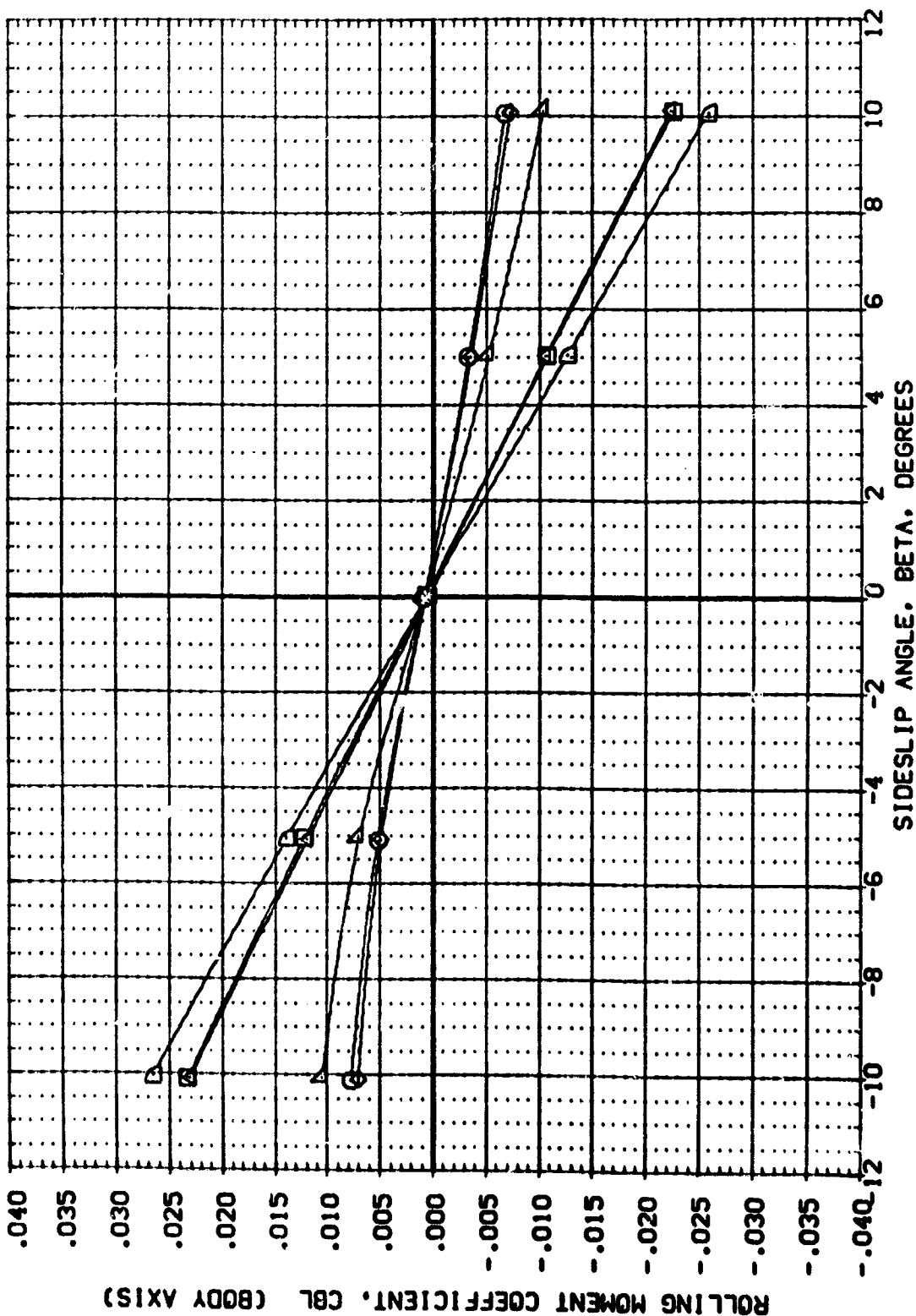


FIG 19 LATERAL - DIRECTIONAL CHAR FLUSH MOUNT CLUSTER 6 NAC X0 =1050 AND 1100  
(A)MACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	NACA	SPDRK	RUDER	REFERENCE INFORMATION
(RQV036)	DA62 B26C9 FBJ48V11GE26V85X10	.000	.480	.000	.000	SREF 4.4119 SO.FT.
(RQV037)	DA62 B26C9 FBJ48V11GE26V85X11	.000	.480	.000	.000	LREF 19.2299 INCHES
(RQV045)	DA62 B26C9 FBJ48V11GE26V85X10	.000	.730	.000	.000	BREF 37.9359 INCHES
(RQV045)	DA62 B26C9 FBJ48V11GE26V85X10	.000	.730	.000	.000	XMRP 43.5974 INCHES
(RQV002)	DA62 B26C9 FB V11GE26V85X9	.000		.000	.000	YMRP .0000 INCHES
(RQV004)	DA62 B26C9 FB V11GE26V85X9	.000		.000	.000	ZMRP 15.1875 INCHES
		10.000				SCALE .0405

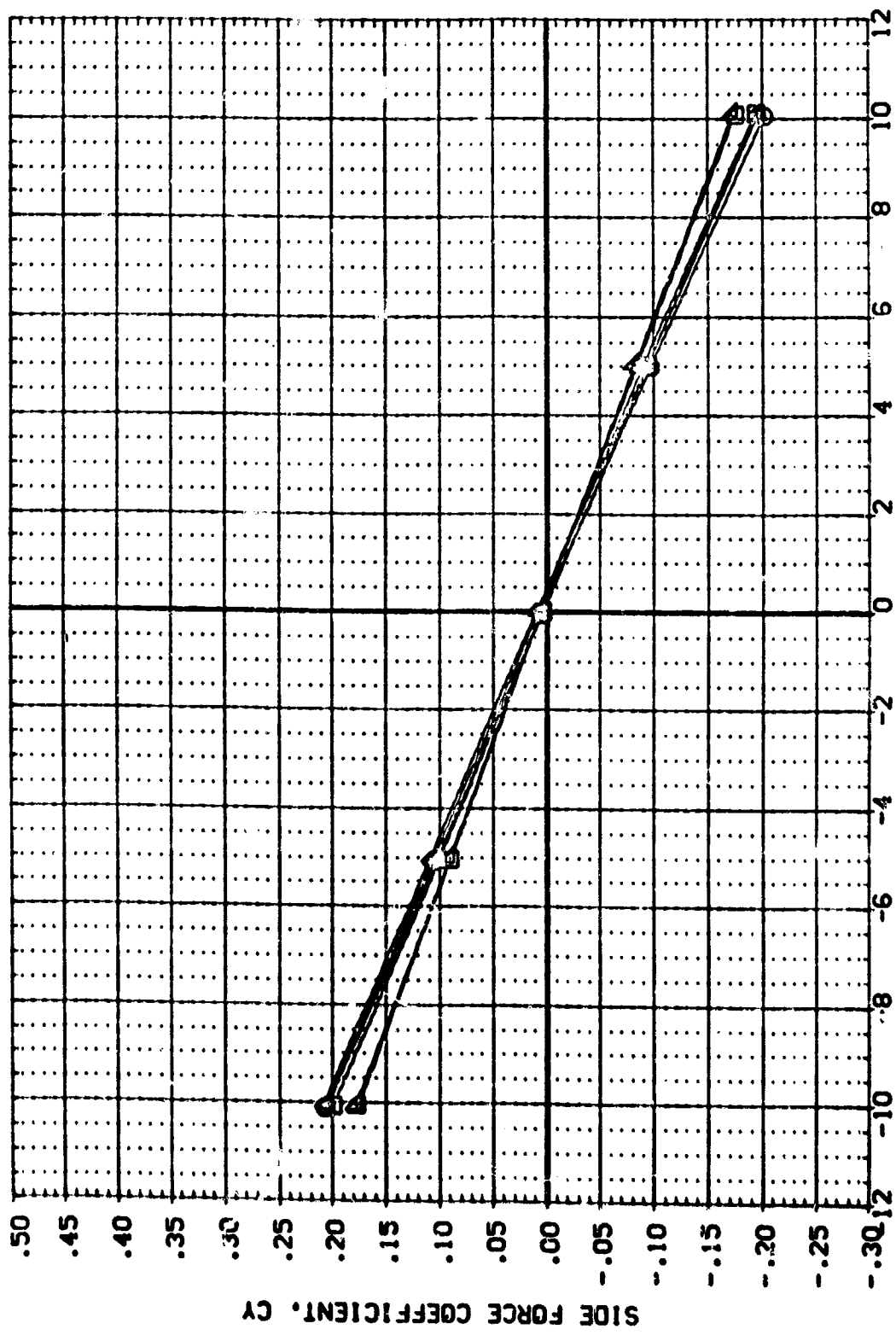


FIG 19 LATERAL - DIRECTIONAL CHAR FLUSH MOUNT CLUSTER 6 NAC X0 =1050 AND 1100

(A)MACH = .20

DATA SET SYMBOL: (EDV036) 8 (EDV045) 8 (EDV002) 8

CONFIGURATION DESCRIPTION: GA52 B26C9 FBV48V116E26VBR5X10 CA52 B26C9 FBV48V116E26VBR5X10 CA52 B26C9 FB V116E26VBR5X9

NACVAL: .480 .730

ELEVON: .000 .000 .000

BOFLAP: -12.000 -12.000 -12.000

SPOBRK: .000 .000 .000

REFERENCE INFORMATION: SREF 4.4119 50. FT. LREF 19.2235 INCHES BREF 37.9359 INCHES XMRP 43.5974 INCHES YMRP .0000 INCHES ZMRP 15.1875 INCHES SCALE .0405

YAWING MOMENT COEFFICIENT DERIVATIVE WITH BETA, CYMBET, PER DEGREE

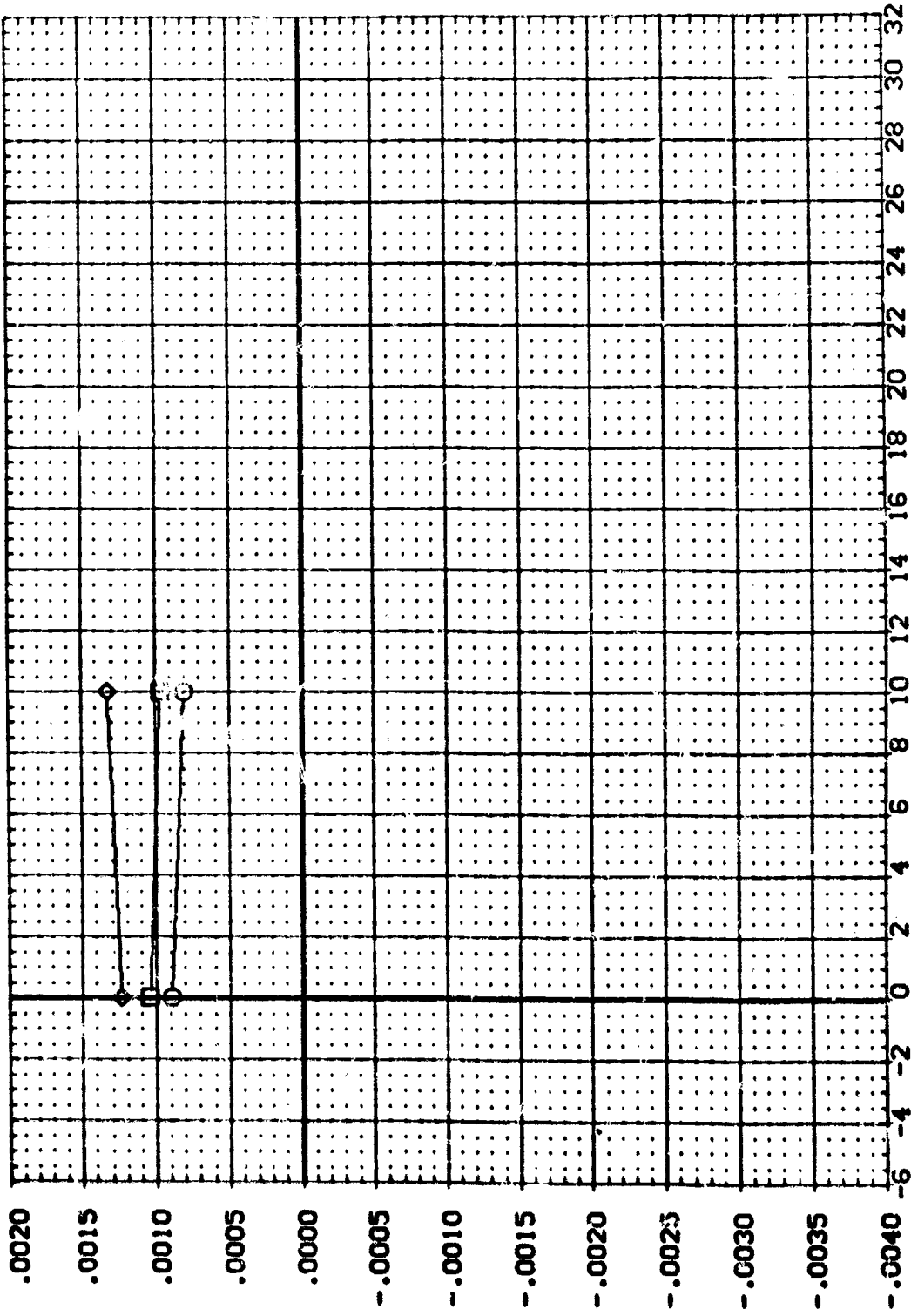


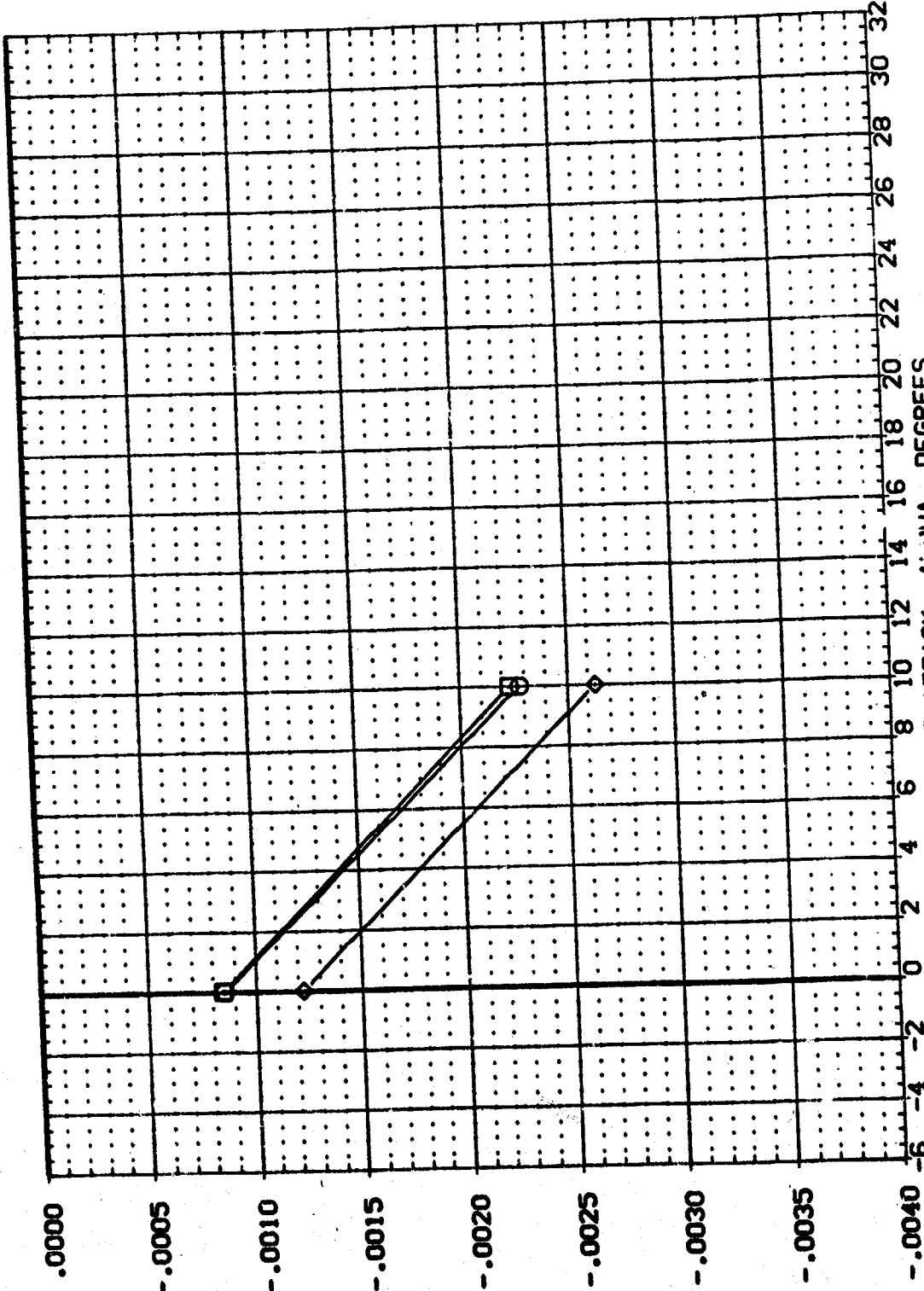
FIG 19 LATERAL - DIRECTIONAL CHAR FLUSH MOUNT CLUSTER 6 NAC X0 =1050 AND 1100



C-3

DATA SET SYMB.	CONFIGURATION DESCRIPTION	NACAL	ELEVON	BOFLAP	SFOBRK	REFERENCE INFORMATION
(EDM036)	0A62 826C9	.480	.000	-12.000	.000	SREF 4.4119 SO.FT.
(EDM045)	0A62 826C9	.730	.000	-12.000	.000	LREF 19.2289 INCHES
(EDM002)	0A62 826C9		.000	-12.000	.000	BREF 37.3559 INCHES
						XMRP 43.5974 INCHES
						YMRP .0000 INCHES
						ZMRP 15.1875 INCHES
						SCALE .0405

ROLLING MOMENT COEFFICIENT DERIVATIVE WITH BETA, CBLBET, PER DEGREE



ANGLE OF ATTACK, ALPHA, DEGREES

FIG 19 LATERAL - DIRECTIONAL CHAR FLUSH MOUNT CLUSTER 6 NAC X0 =1050 AND 1100

DATA SET SYMBO	CONFIGURATION DESCRIPTION	NACAL	ELEVON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(EDW036)	DAG2 B26C9 FB448V116E26V8R5K10	.480	.000	-12.000	.000	SREF 4.4119 SO.FT.
(EDW045)	DAG2 B26C9 FB448V116E26V8R5K10	.730	.000	-12.000	.000	LREF 19.2259 INCHES
(EDW002)	DAG2 B26C9 FB V116E26V8R5K9					BREF 37.5359 INCHES
						XMRP .0000 INCHES
						ZMRP 15.1875 INCHES
						SCALE .0405

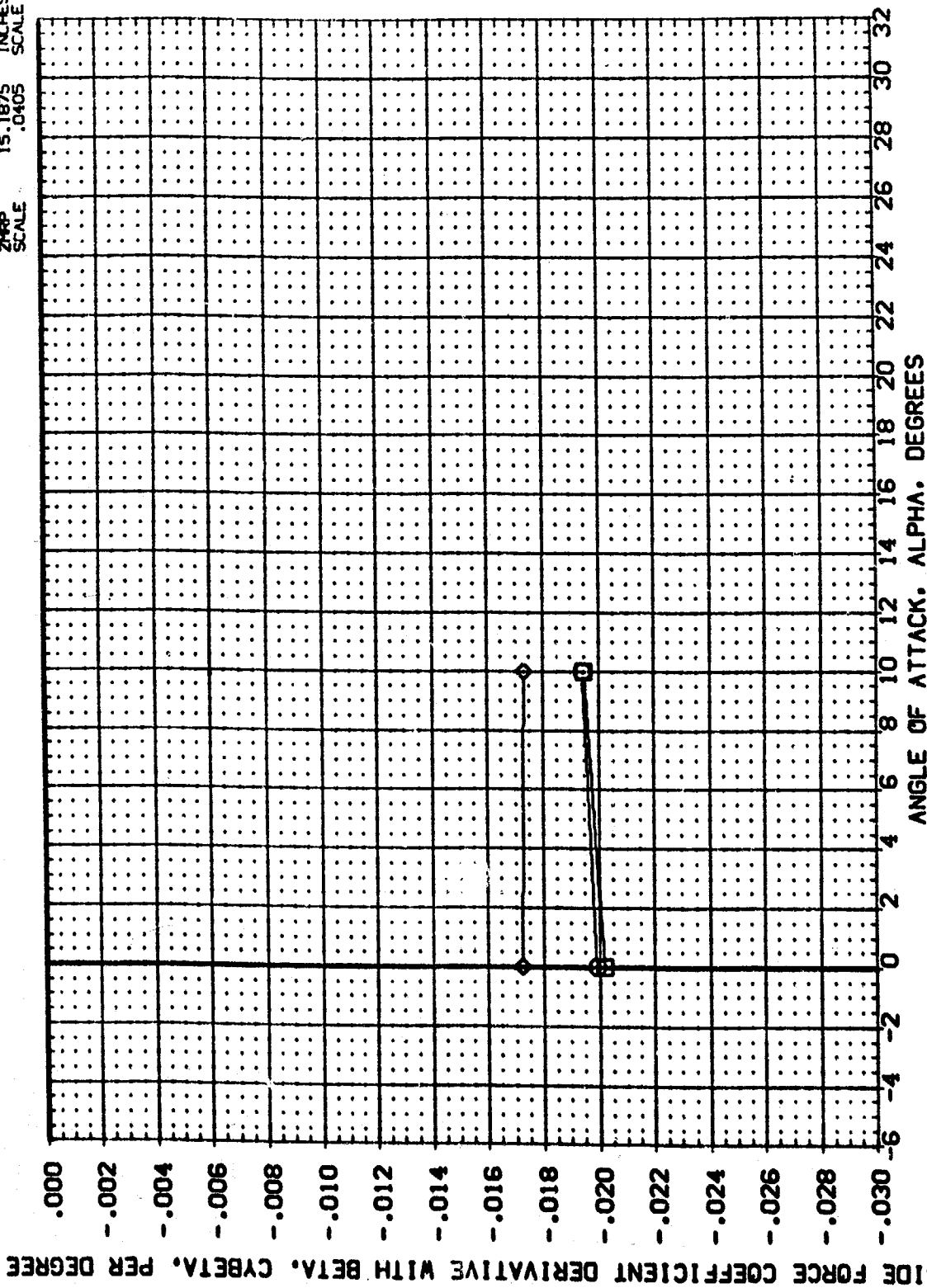


FIG 19 LATERAL - DIRECTIONAL CHAR FLUSH MOUNT CLUSTER 6 NAC X0 =1050 AND 1100



# DATA SET SYMBOL CONFIGURATION DESCRIPTION

(ROM079) P-32 B26C9 FBJ48V116E26V85X10  
 (ROM080) OA62 B26C9 FBJ48V116E26V85X10  
 (ROM081) OA62 B26C9 FBJ48V116E26V85X10  
 (ROM082) OA62 B26C9 FBJ48V116E26V85X10

ALPHA .000  
 .000  
 5.000  
 10.000  
 15.000

NACX/L .730  
 .730  
 .730  
 .730  
 .730

SPDRK .000  
 .000  
 .000  
 .000  
 .000

RUDER .000  
 .000  
 .000  
 .000  
 .000

REFERENCE INFORMATION  
 SREF 4.4119 SQ.FT.  
 LREF 19.2299 INCHES  
 BREF 37.9359 INCHES  
 XMRP 43.5974 INCHES  
 YMRP .0000 INCHES  
 ZMRP 15.1875 INCHES  
 SCALE .0405

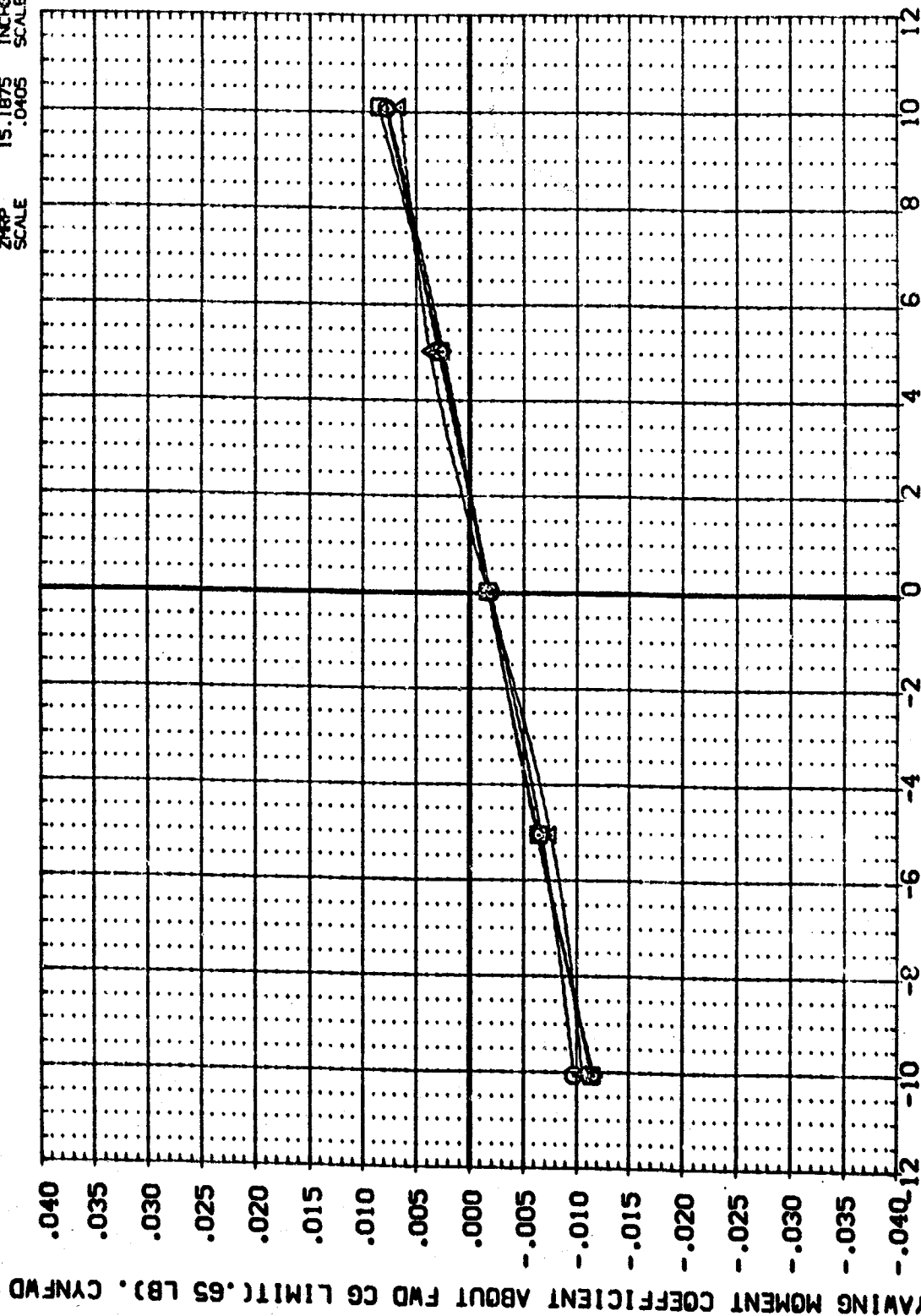


FIG 20 LAT. / 0. CHARACTERISTICS 3 UNDER CLUSTERS X0 = 1100

(A)MACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	NACA/L	SPDRK	FLODER	REFERENCE INFORMATION
(RDV079)	0A62 B26C9 FBJ48V116E26V8FSX10	.000	.730	.000	.000	SREF 4.4119 SO.FT.
(RDV080)	0A62 B26C9 FBJ48V116E26V8FSX10	5.000	.730	.000	.000	LREF 19.2259 INCHES
(RDV081)	0A62 B26C9 FBJ48V116E26V8FSX10	10.000	.730	.000	.000	BREF 37.9359 INCHES
(RDV082)	0A62 B26C9 FBJ48V116E26V8FSX10	15.000	.730	.000	.000	YREF 43.5974 INCHES
						YMRP 15.0000 INCHES
						ZMRP 15.1875 INCHES
						SCALE .0405

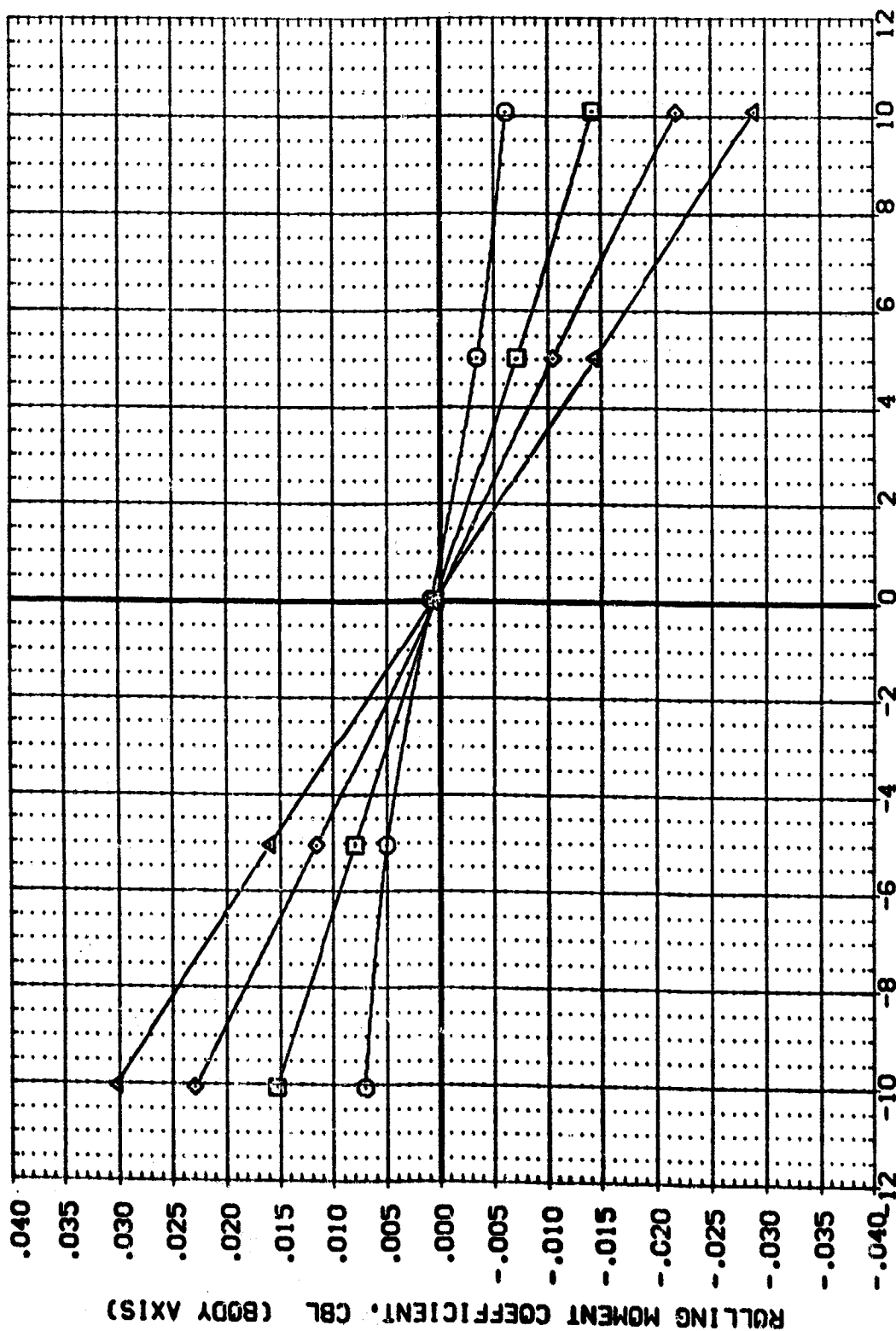


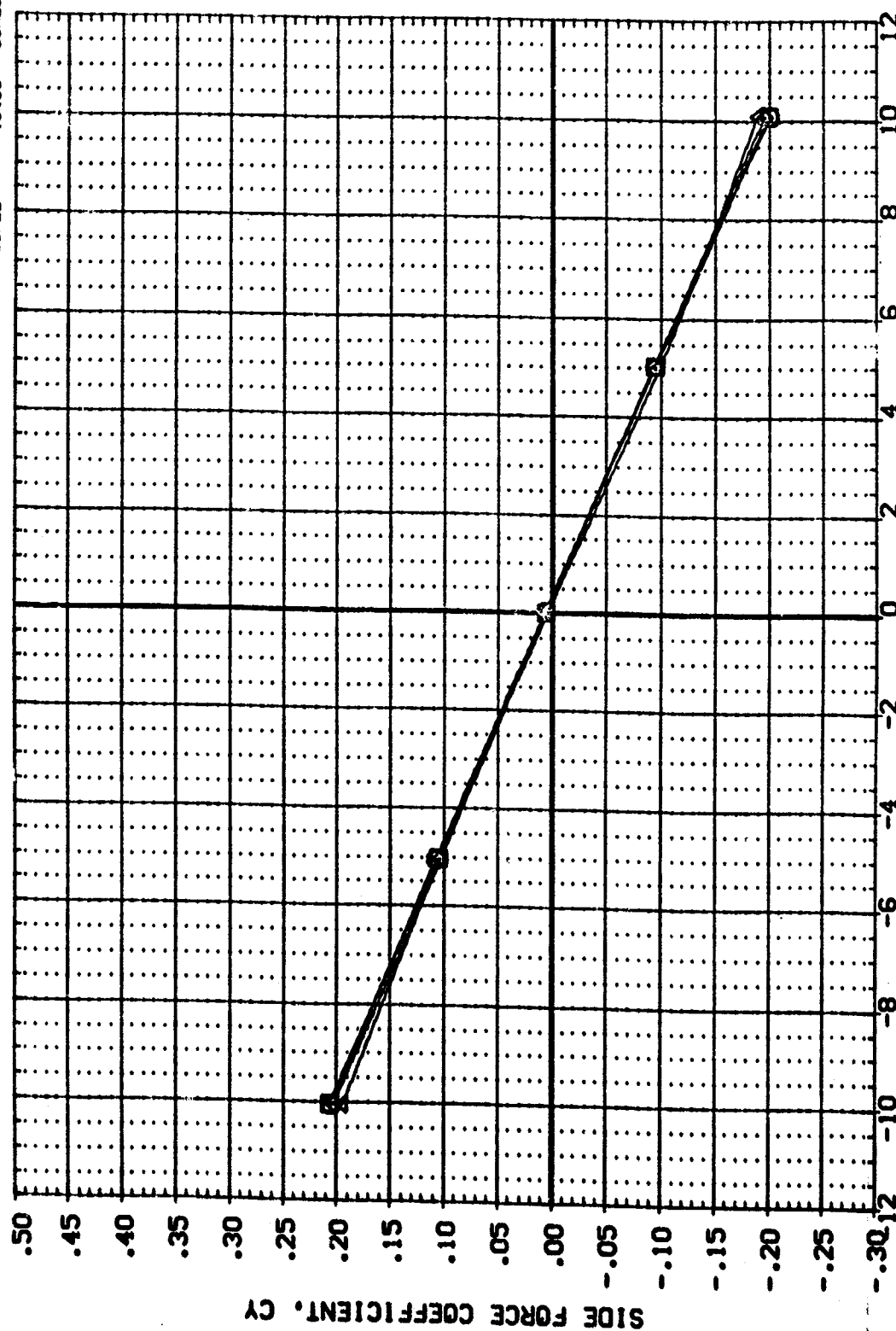
FIG 20 LAT. / DIR. CHARACTERISTICS 3 UNDER CLUSTERS X0 = 1100

(A)MACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(RDV079)	0452 B26C9 FB448V116E26VBR5X10
(RDV080)	0452 B26C9 FB448V116E26VBR5X10
(RDV081)	0452 B26C9 FB448V116E26VBR5X10
(RDV082)	0452 B26C9 FB448V116E26VBR5X10

ALPHA	NACA/L	SPDRK	RLODR
.000	.730	.000	.000
5.000	.730	.000	.000
10.000	.730	.000	.000
15.000	.730	.000	.000

REFERENCE INFORMATION	
SREF	4.4119 SO.FT.
LREF	19.2299 INCHES
BREF	37.9359 INCHES
YMRP	43.5974 INCHES
ZMRP	.0000 INCHES
SCALE	15.1875 INCHES
	.0405 INCHES



SIDESLIP ANGLE, BETA, DEGREES

FIG 20 LAT. / DIR. CHARACTERISTICS 3 UNDER CLUSTERS X0 = 1100

(A)MACH = .20

0A62 B26C9 F8J48W116E26V8R5X10 (DDW079)

SYMBOL:   
 0   
 □   
 ◇   
 △

PARAMETRIC VALUES   
 BOFLAP -12.000   
 AILRON .000   
 SPOBRK .000

YAWING MOMENT COEFFICIENT DERIVATIVE WITH BETA, CYNBET, PER DEGREE

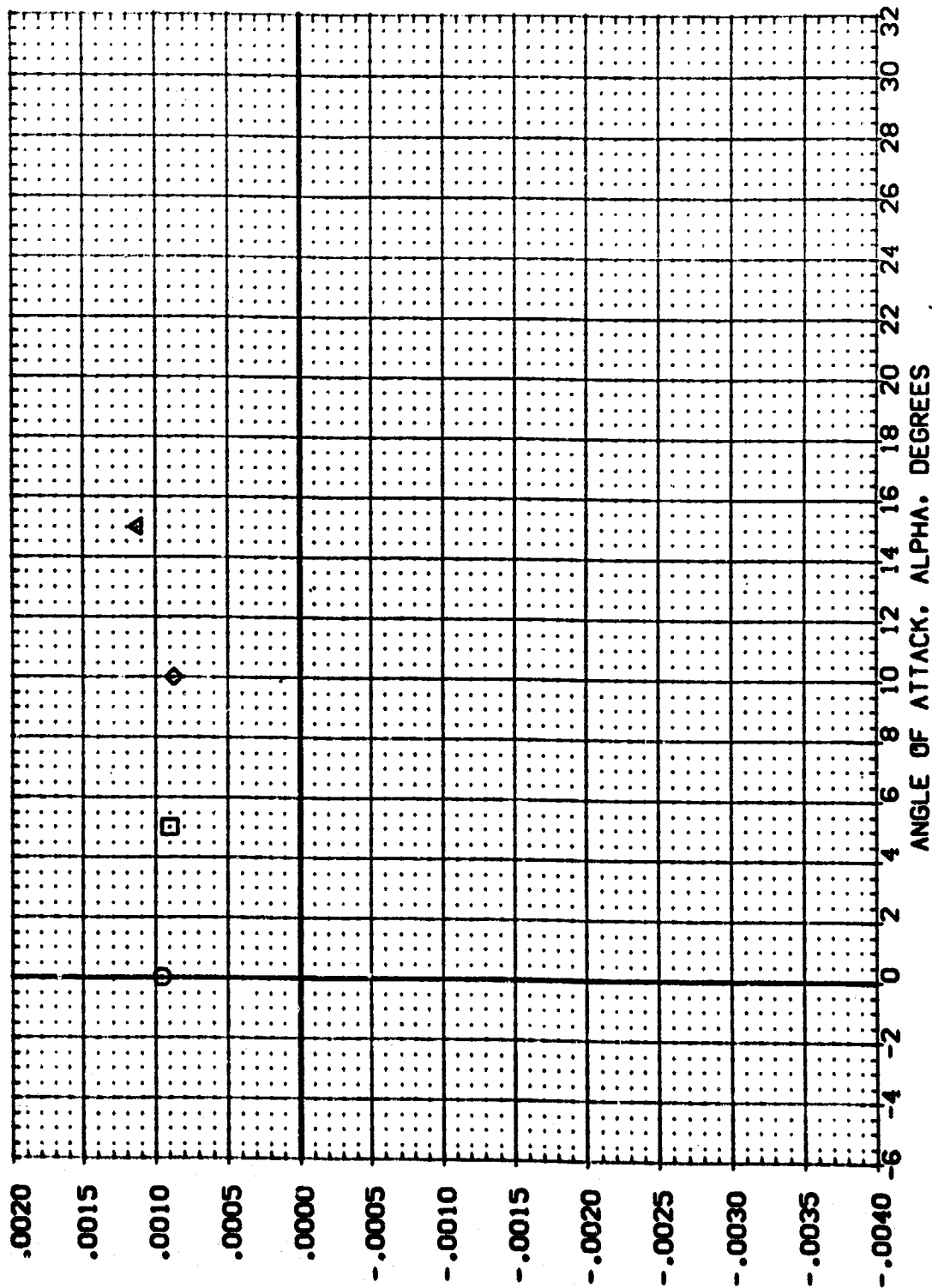


FIG 20 LAT. / DIR. CHARACTERISTICS 3 UNDER CLUSTERS X0 = 1100

(DDW079)

0A62 B26C9 F8J48W116E26V8R5X10

REFERENCE INFORMATION  
 SREF 4.4119 SO.FT.  
 LREF 19.2299 INCHES  
 BREF 37.9359 INCHES  
 YMRP 43.5974 INCHES  
 YMRP 15.0000 INCHES  
 ZMRP 15.1875 INCHES  
 SCALE .0405

PARAMETRIC VALUES  
 .200 BDFLAP -12.000  
 .000 AILRON .000  
 .000 SPDBRK .000

SYMBOL NACA/L MACH ELEVON FLUDDER  
 .730 .730 .730 .730

ROLLING MOMENT COEFFICIENT DERIVATIVE WITH BETA, CBLBET, PER DEGREE

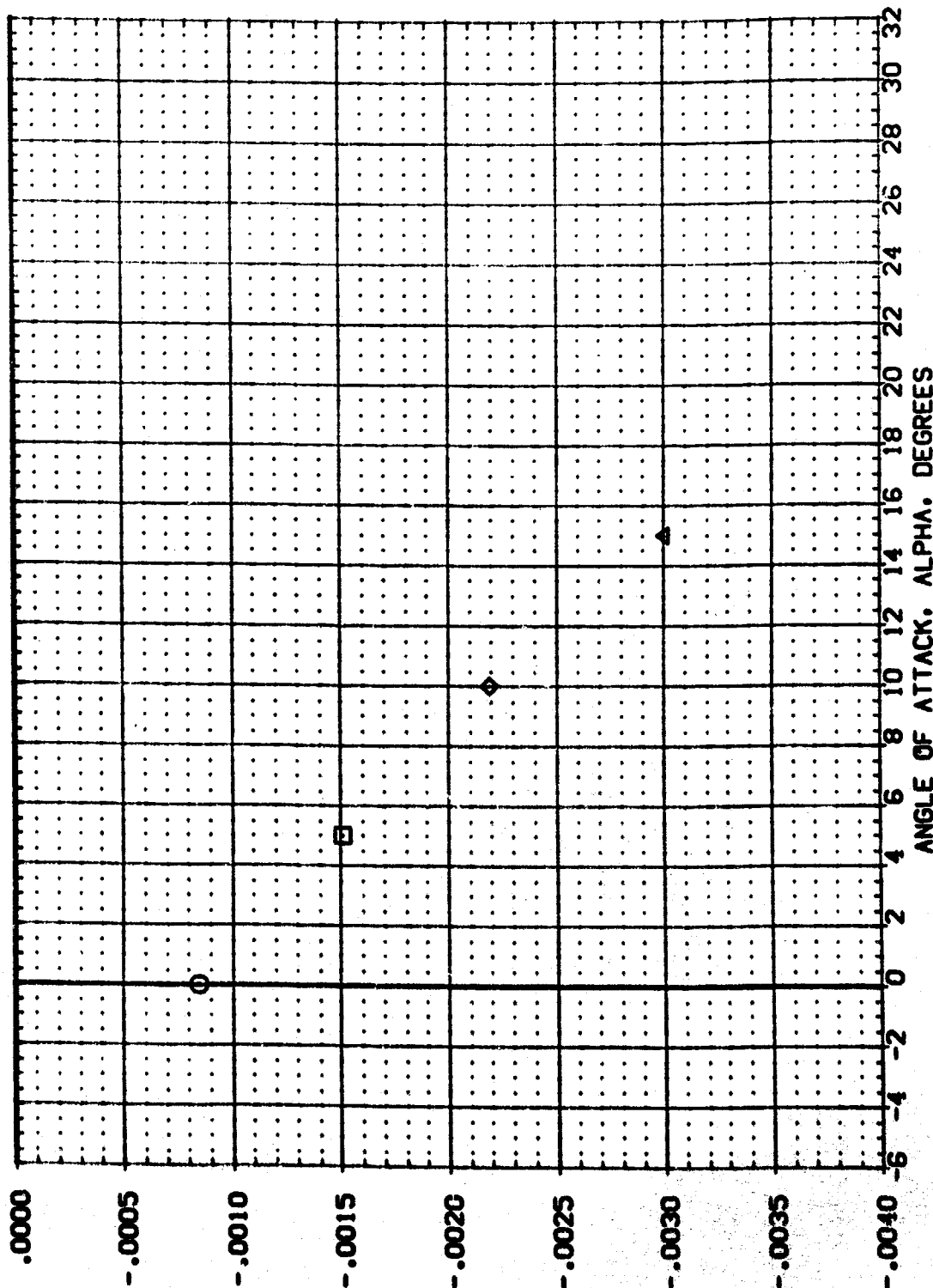


FIG 20 LAT. / DIR. CHARACTERISTICS 3 UNDER CLUSTERS XC = 1100

(DDW079)

0A62 B26C9 F8J48W116E26V8R5X10

SYMBOL NACA L HACH ELEVON RUDDER  
O .730  
□ .730  
△ .730

PARAMETRIC VALUES  
.200 BDFLAP  
.000 AILRON  
.000 SPDRK

SIDE FORCE COEFFICIENT DERIVATIVE WITH BETA, CYBETA, PER DEGREE

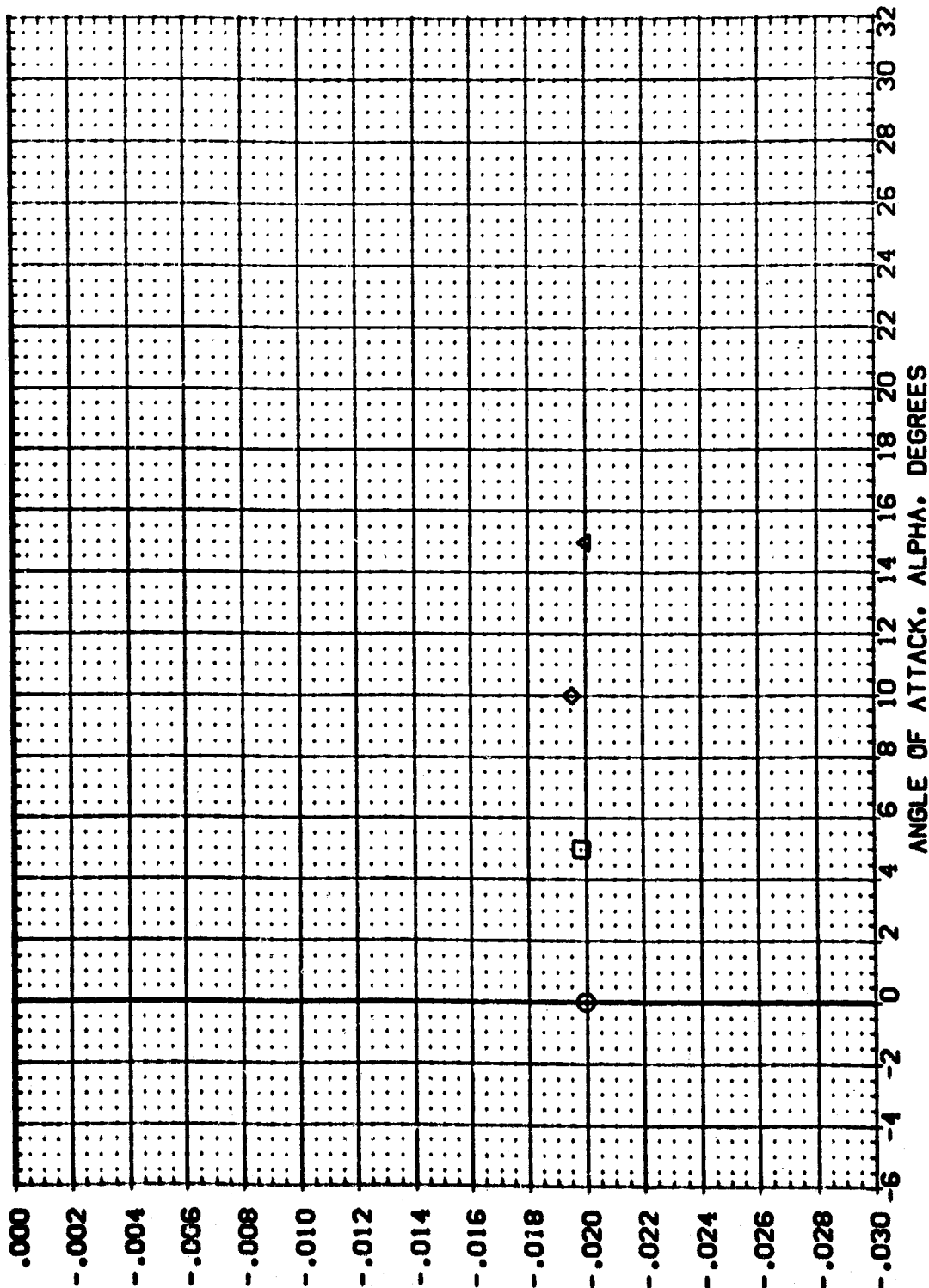


FIG 20 LAT. / DIR. CHARACTERISTICS 3 UNDER CLUSTERS X0 = 1100

DATA SET SYMBOL: **B** CONFIGURATION DESCRIPTION: FB47V116E2SV8RSX10  
 (ADVC038) : 0A62 826C9 FB V116E2SV8RSX9  
 (ADVC001) : 0A62 826C9

NACA/ELEVON: .000 BD/FLAP: .000 SP/DBRK: .000  
 SREF: 4.4119 SQ.FT.  
 LREF: 19.2288 INCHES  
 BREF: 37.9359 INCHES  
 XMRP: 43.5974 INCHES  
 YMRP: .0000 INCHES  
 ZMRP: 15.1875 INCHES  
 SCALE: .0405

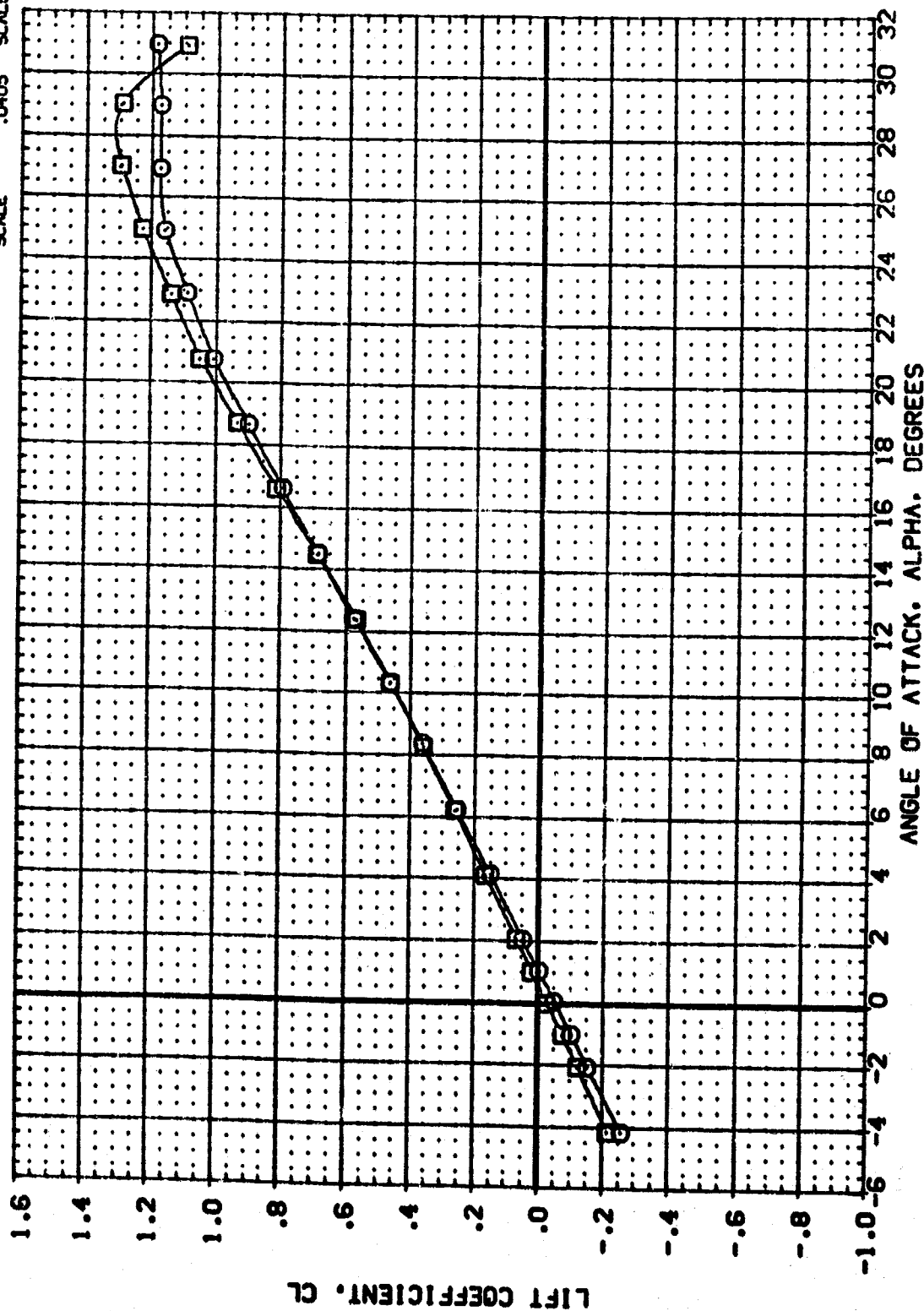


FIG 21 LONGITUDINAL CHARACTERISTICS SINGLE NACELLES 6 ENGINE

(A)MACH = .20

DATA SET SYMBOL (AD0038) (AD0001) **B**

CONFIGURATION DESCRIPTION

0452 826C9 F8J47V116E25V8R3X10  
0452 826C9 F8 V116E25V8R3X10

NACAL ELEVON BOFLAP SPOBRK

.000 .000 -12.000 .000

REFERENCE INFORMATION  
SREF 4.4119 SO.FT.  
LREF 19.2299 INCHES  
BREF 37.9359 INCHES  
XREF 43.5974 INCHES  
YREF .0000 INCHES  
ZREF 15.1875 INCHES  
SCALE .0405

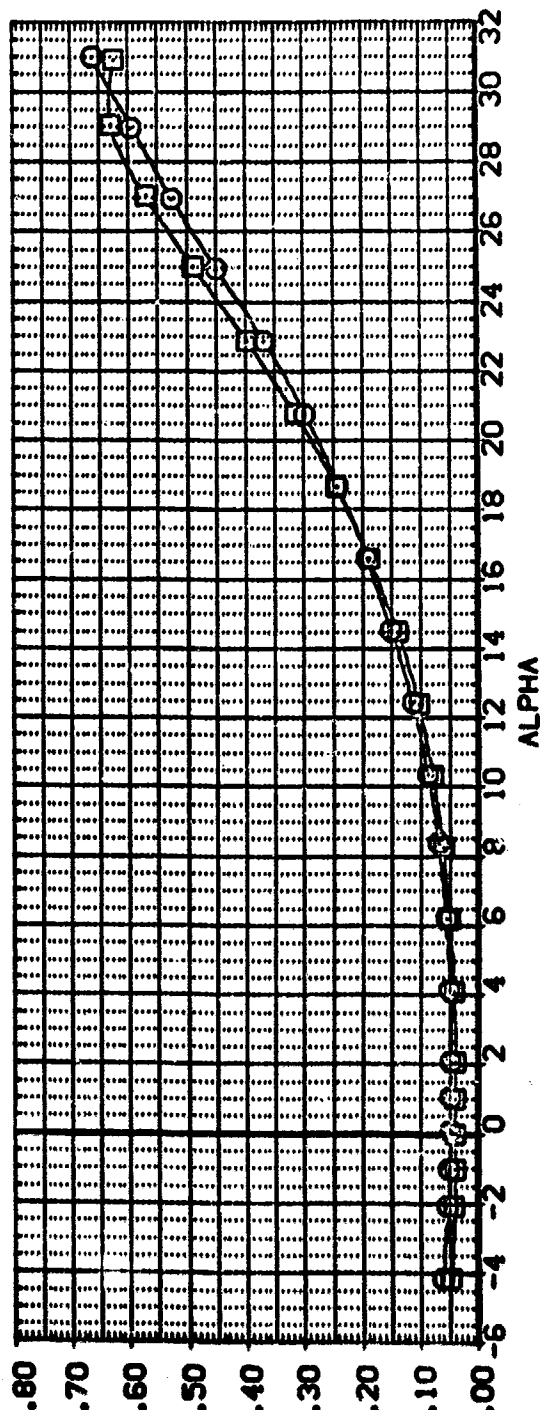
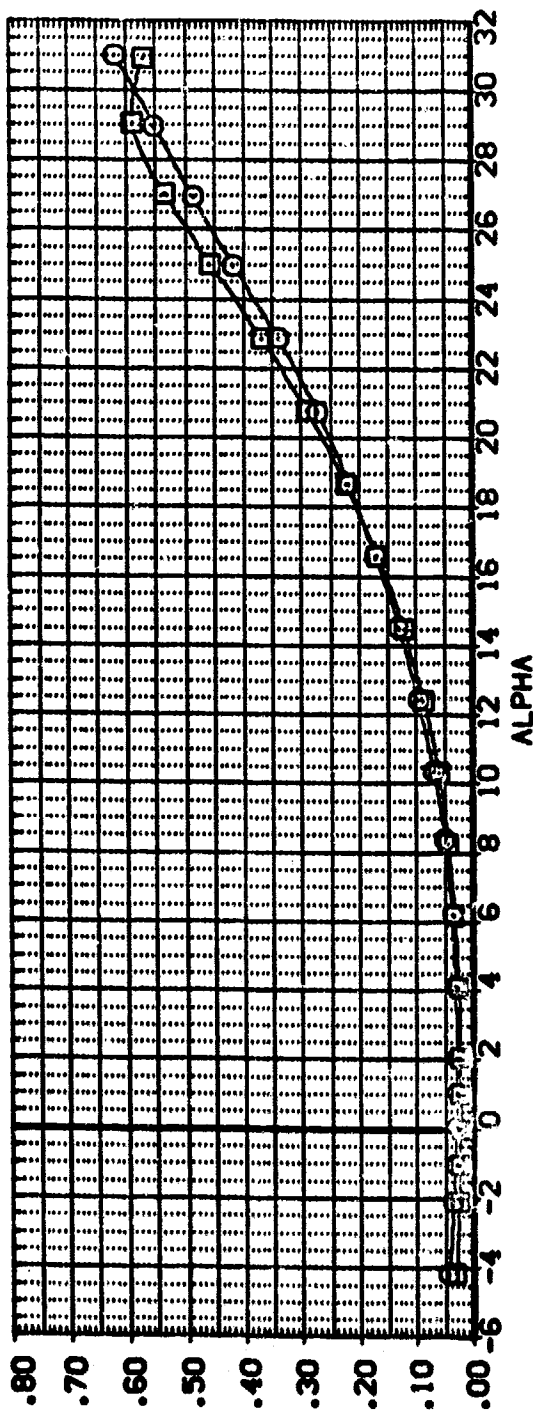


FIG 21 LONGITUDINAL CHARACTERISTICS

(A)MACH = .20

SINGLE NACELLES 6 ENGINE



DATA SET SYMBOL: (ADW038) (ADW001)

CONFIGURATION DESCRIPTION: FB J47V115E26V8RSK10 FB V115E26V8RSK9

NACAL ELEVON REF LAP SPOBRK

REFERENCE INFORMATION: SREF 4.4119 50 FT INCHES LREF 19.2299 INCHES BREF 37.5359 INCHES XTRP 43.5574 INCHES YTRP .0000 INCHES ZTRP 15.1875 INCHES SCALE .0405

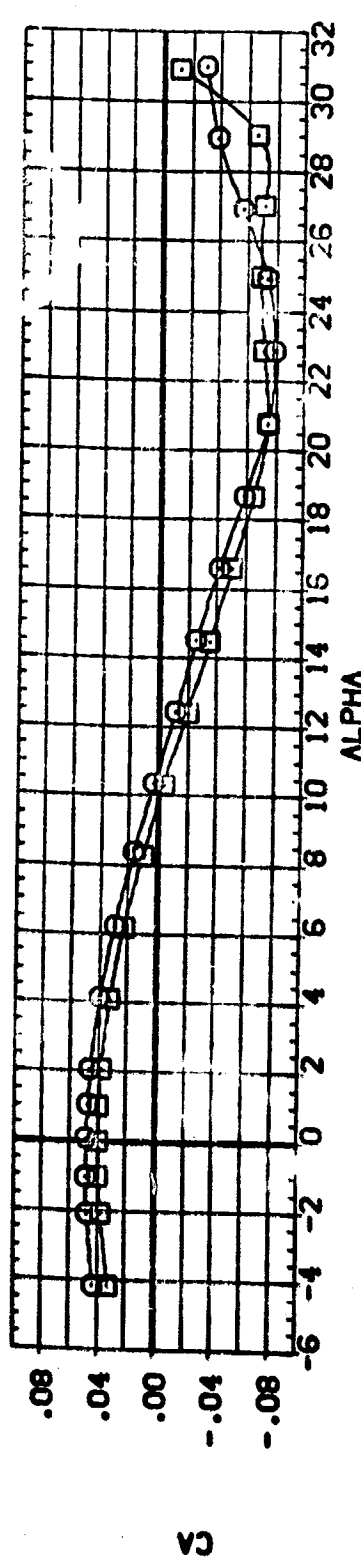
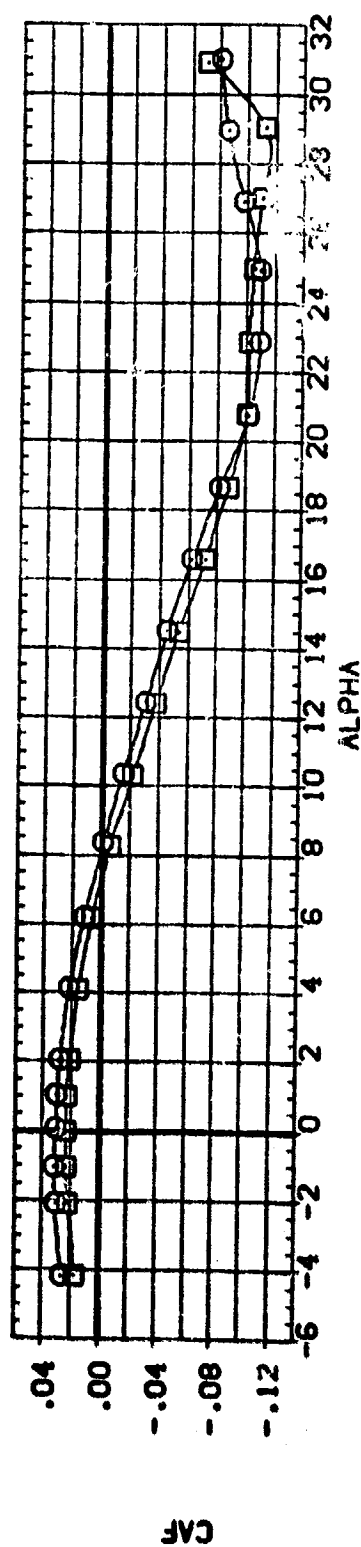
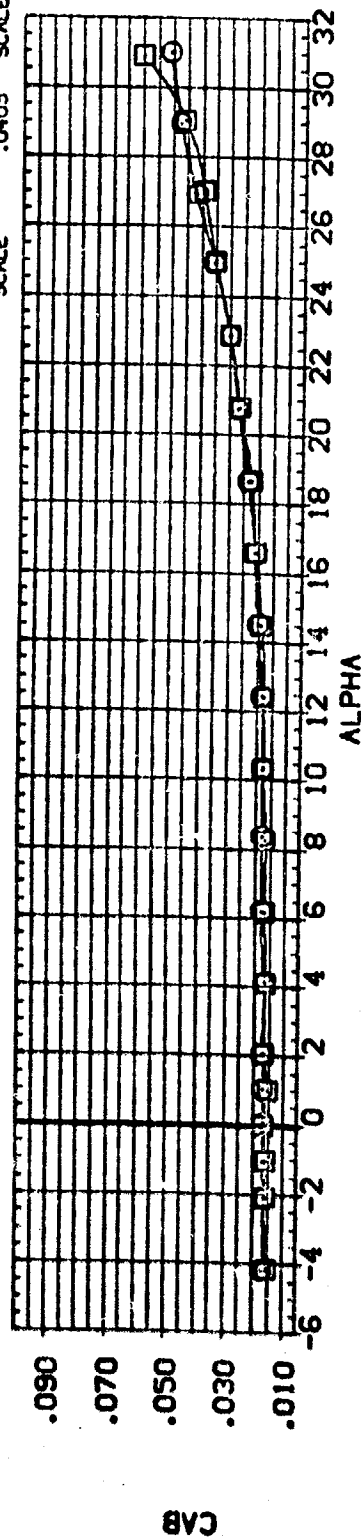


FIG 21 LONGITUDINAL CHARACTERISTICS SINGLE NACELLES 6 ENGINE

(A)MACH = .20

DATA SET SYMBOL: 8  
 (ADW038) 8  
 (ADW001) 8

CONFIGURATION DESCRIPTION:  
 FB47V11E7S400X10  
 FB V11E230V05X9

MACVL ELEVON SFLAP SPOBRK  
 .000 .000 .000 .000  
 .000 .000 .000 .000  
 .000 .000 .000 .000  
 .000 .000 .000 .000

REFERENCE INFORMATION  
 SREF 4.4119 SQ.FT.  
 LREF 19.2259 INCHES  
 BREF 37.9359 INCHES  
 YARP 43.5974 INCHES  
 YARP .0000 INCHES  
 ZARP 15.1875 INCHES  
 SCALE .0405

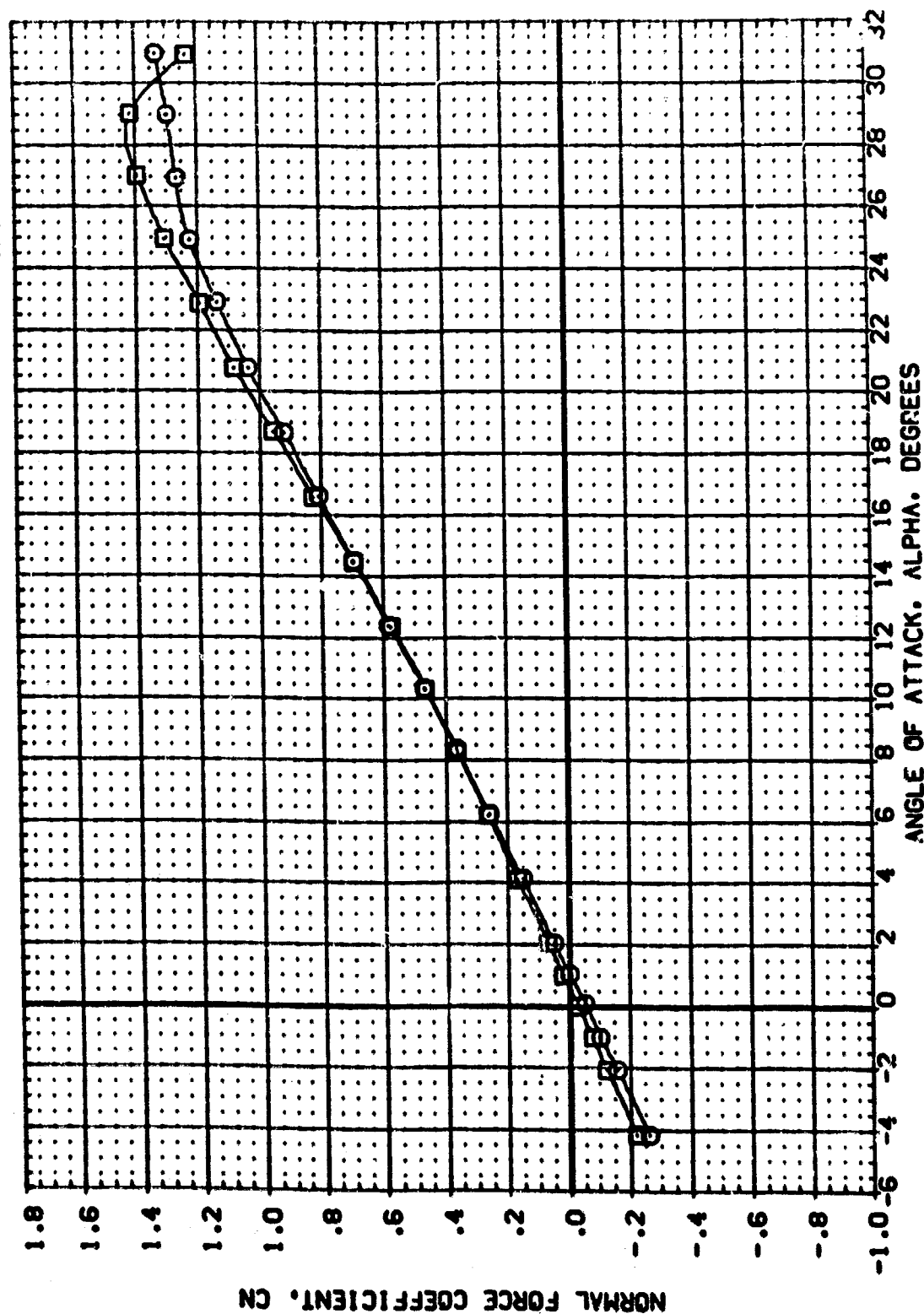


FIG 21 LONGITUDINAL CHARACTERISTICS  
 (A)MACH = .20  
 SINGLE NACELLES 6 ENGINE  
 PAGE 146



DATA SET SYMBOL    CONFIGURATION DESCRIPTION    REFERENCE INFORMATION

(AD0038)	0A62    826C9    FB47V116E26V85K10	SREF    4.4119    SQ.FT.
(AD0011)	0A62    826C9    FB    V116E26V85K9	LREF    19.2258    INCHES
		BREF    37.9359    INCHES
		XMRP    43.5974    INCHES
		YMRP    .0000    INCHES
		ZMRP    15.1875    INCHES
		SCALE    .0405    SCALE

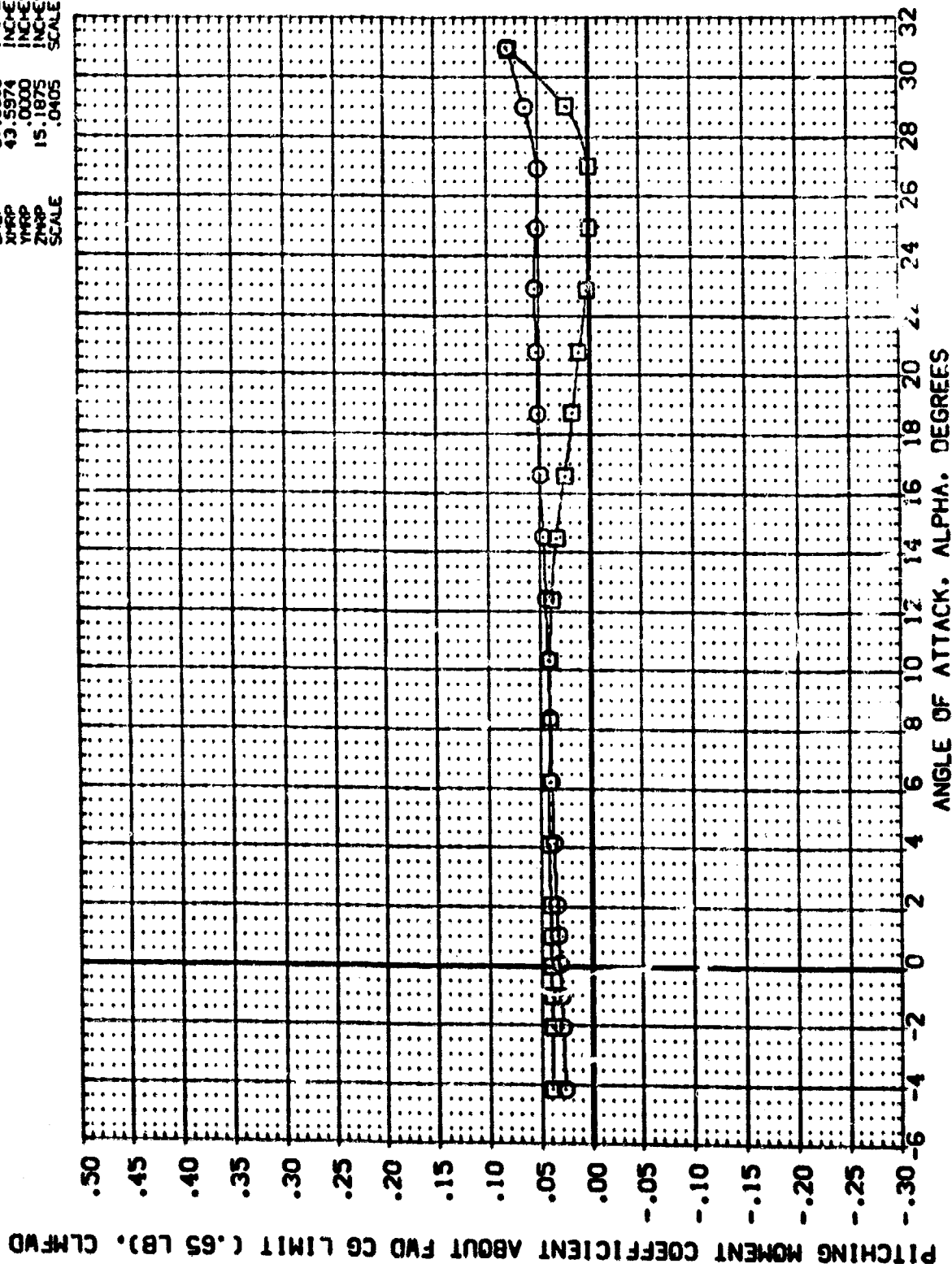


FIG 21 LONGITUDINAL CHARACTERISTICS    SINGLE NACELLES    6 ENGINE

(A)MACH = .20

DATA SET SYMBOL: (ADM038) (ADM001)  CONFIGURATION DESCRIPTION: 0A62 826C9 0A62 826C9 F8J47V116E26V85X10 F8 V116E26V85X9

NACA/L: .000 ELEVON: .000 .000 BOFLAP: .000 .000 .000 SPOBRK: .000 .000 .000

REFERENCE INFORMATION:  
SREF: 4.4119 50. FT.  
LREF: 19.2299 INCHES  
BREF: 37.9359 INCHES  
XTRP: 43.5974 INCHES  
YTRP: 15.0000 INCHES  
ZTRP: 15.1875 INCHES  
SCALE: .0405

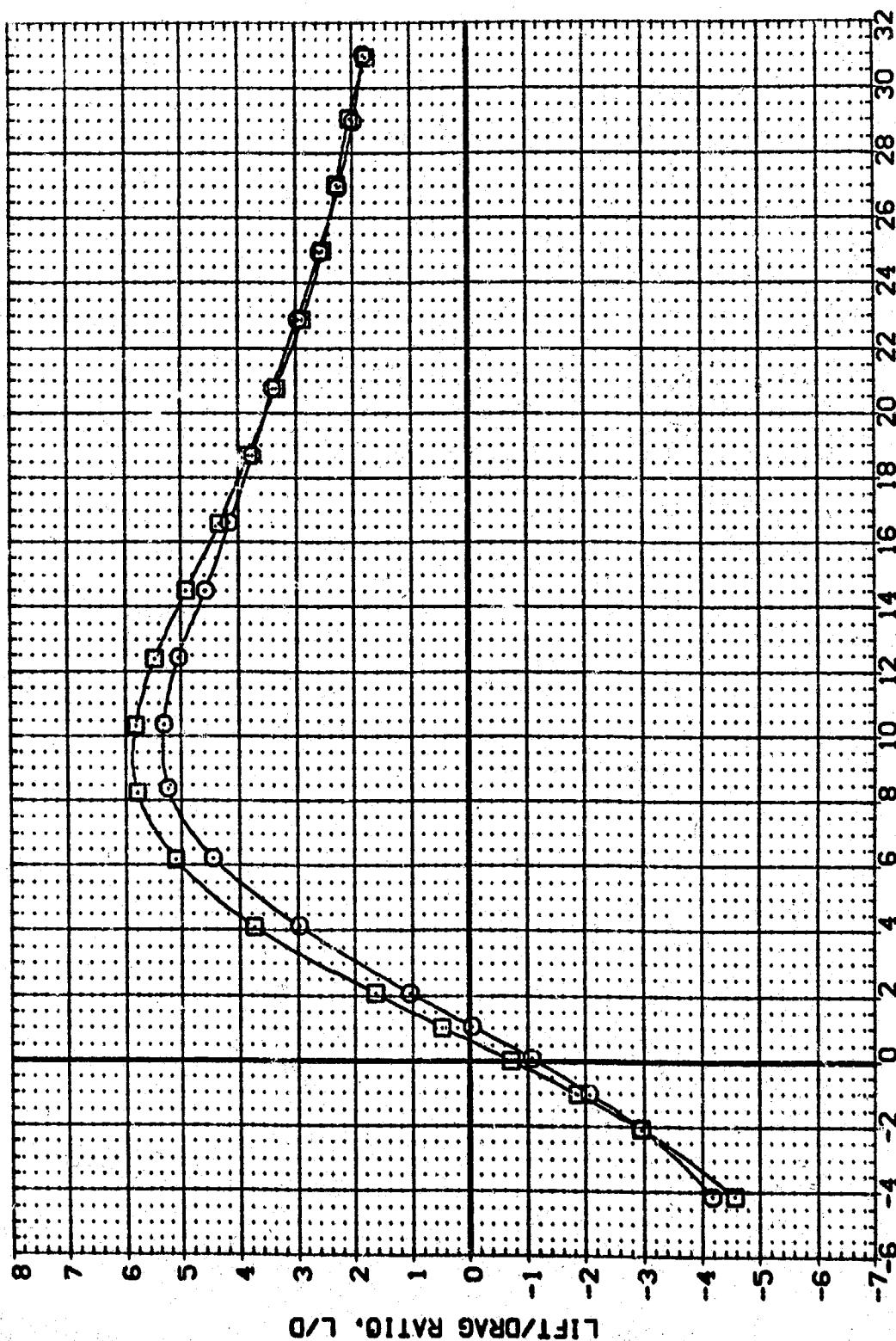


FIG 21 LONGITUDINAL CHARACTERISTICS SINGLE NACELLES 6 ENGINE

(A)MACH = .20

DATA SET SYMBOL: (ADM038) (ADM001)

CONFIGURATION DESCRIPTION: FB VI

REFERENCE INFORMATION:

SREF	4.4119	SO.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	15.1875	INCHES
SCALE	.0405	SCALE

NACA/L: .000

ELEVON: .000

BOFLAP: -12.000

SPOBRK: .000

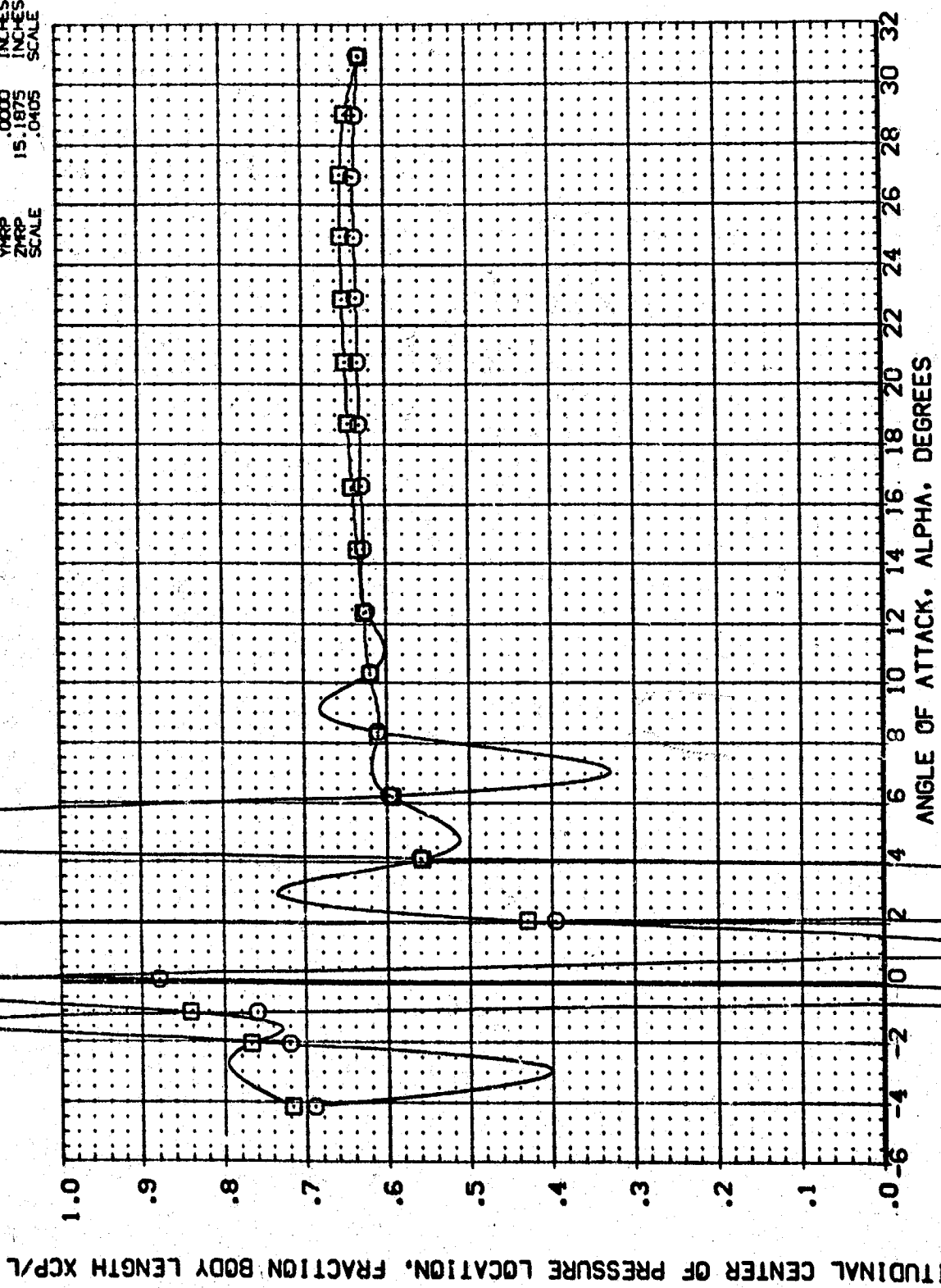
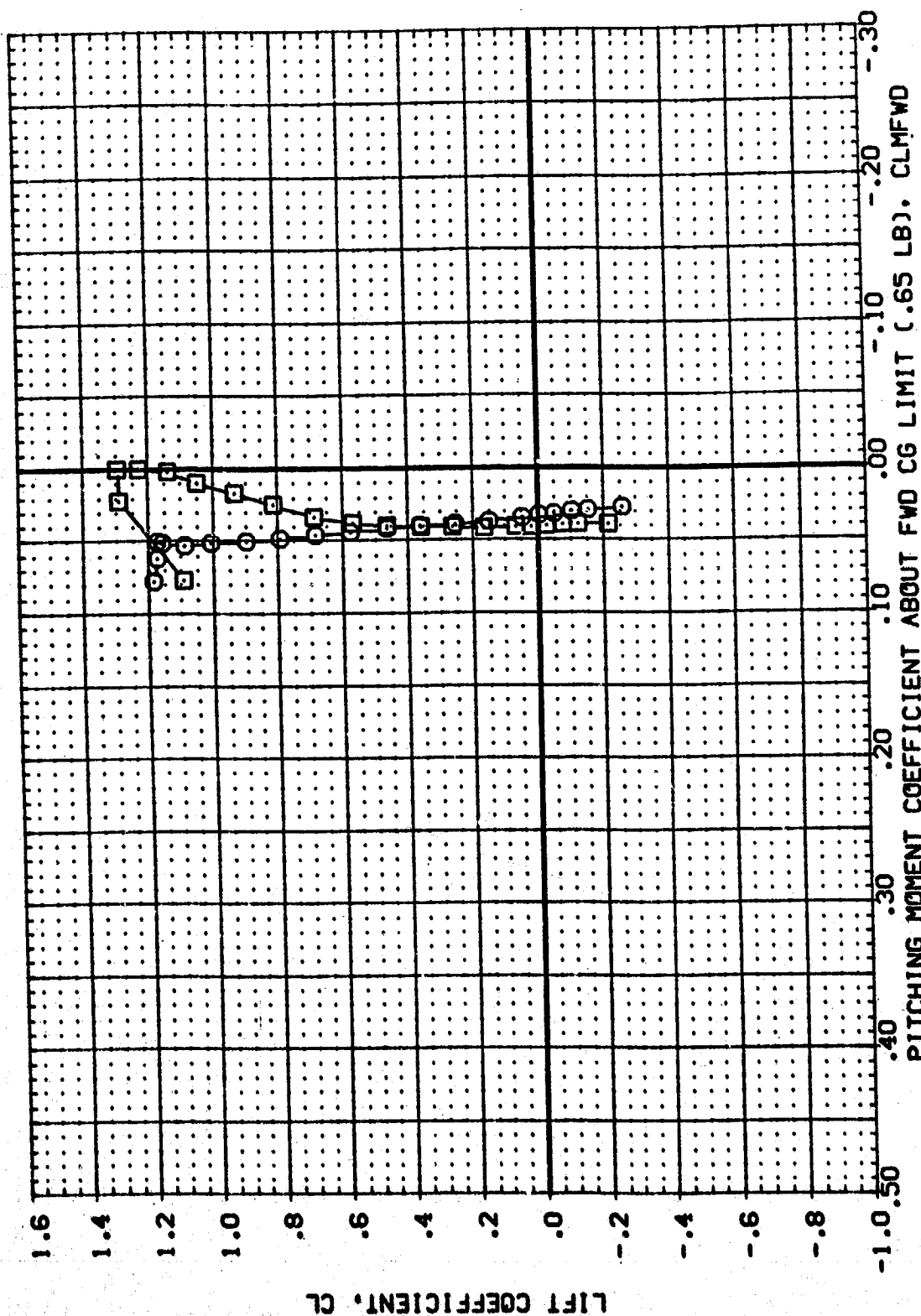


FIG 21 LONGITUDINAL CHARACTERISTICS SINGLE NACELLES 6 ENGINE

CONFIGURATION	DESCRIPTION
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100	...

NACX/L	ELEVON	BO-LAP	SPUBKX
.000	.000	-12.000	.000
	.000	-12.000	.000

REFERENCE INFORMATION		SO. FT.
SREF	4.4119	INCHES
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	15.1875	INCHES
SCALE	.0405	SCALE



**FIG 21**      **LONGITUDINAL CHARACTERISTICS**

## SINGLE NACELLES 6 ENGINE

(A)ACH = .20

DATA SET SYMBOL (ADM038) (ADM001)

CONFIGURATION DESCRIPTION

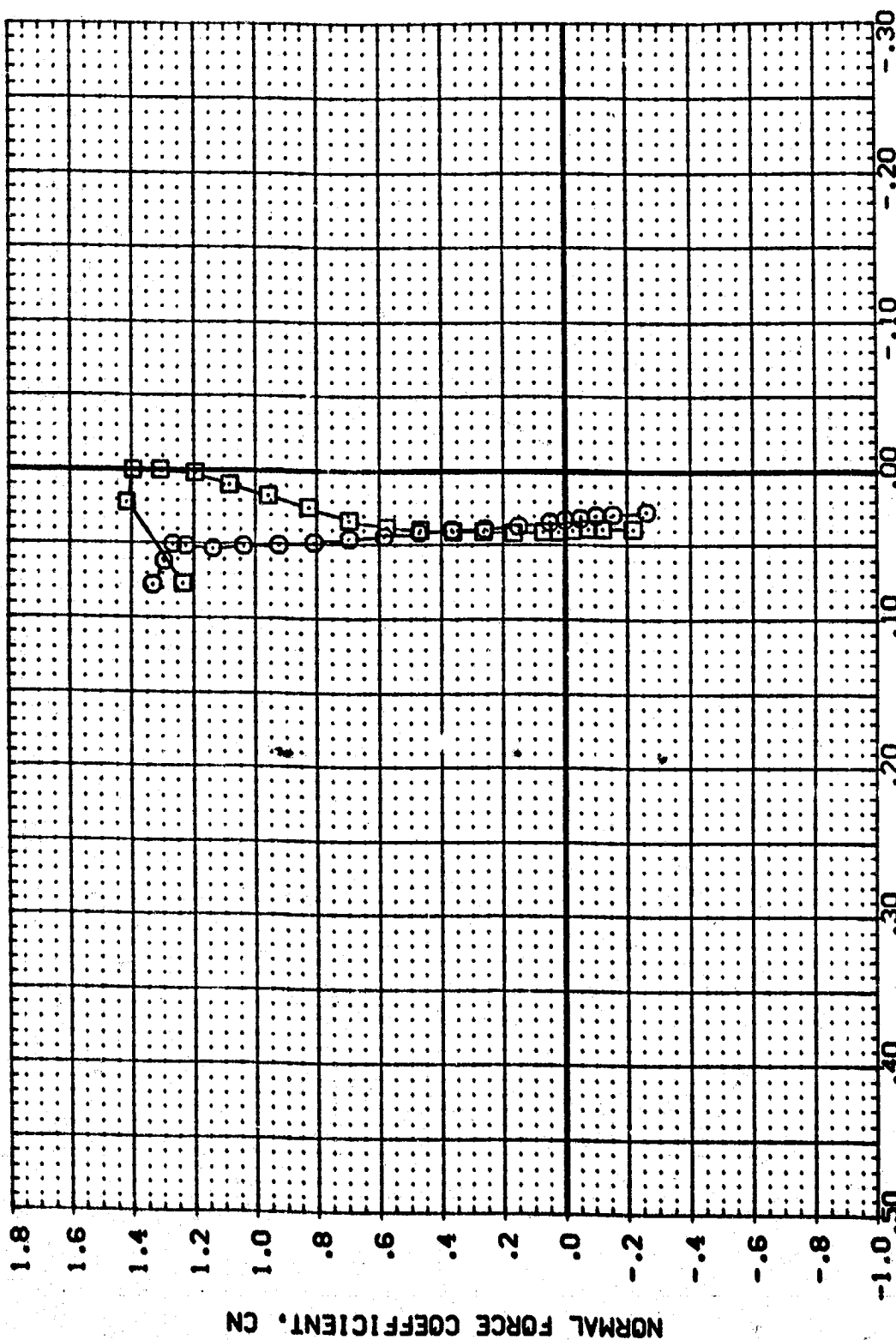
0A62 826C9 F8J47V116E26V85X10  
0A62 826C9 F8 V116E26V85X9

NACX/L ELEVON BOFLAP SPOBRK

.000 .000 -12.000 .000

REFERENCE INFORMATION

SREF 4.4119 50. FT.  
LREF 19.2299 INCHES  
BREF 37.9359 INCHES  
XMRP 43.5974 INCHES  
YMRP 0.0000 INCHES  
ZMRP 15.1875 INCHES  
SCALE .0405



PITCHING MOMENT COEFFICIENT ABOUT FWD CG LIMIT (.65 LB). CLMFWD

FIG 21 LONGITUDINAL CHARACTERISTICS SINGLE NACELLES 6 ENGINE

(A)MACH = .20

DATA SET SYMBOL: (ADM038) (ADM001)

CONFIGURATION DESCRIPTION: 0462 826C9 0462 826C9 F8 V116E26V8R5X10 F8 V116E26V8R5X9

NACA/L ELEVON BOFLAP SPOBRK  
.000 .000 -12.000 .000

REFERENCE INFORMATION  
SREF 4.4119 50.FT.  
LREF 19.2299 INCHES  
BREF 37.9359 INCHES  
XREF 43.5974 INCHES  
YREF .0000 INCHES  
ZREF 15.1875 INCHES  
SCALE .0405

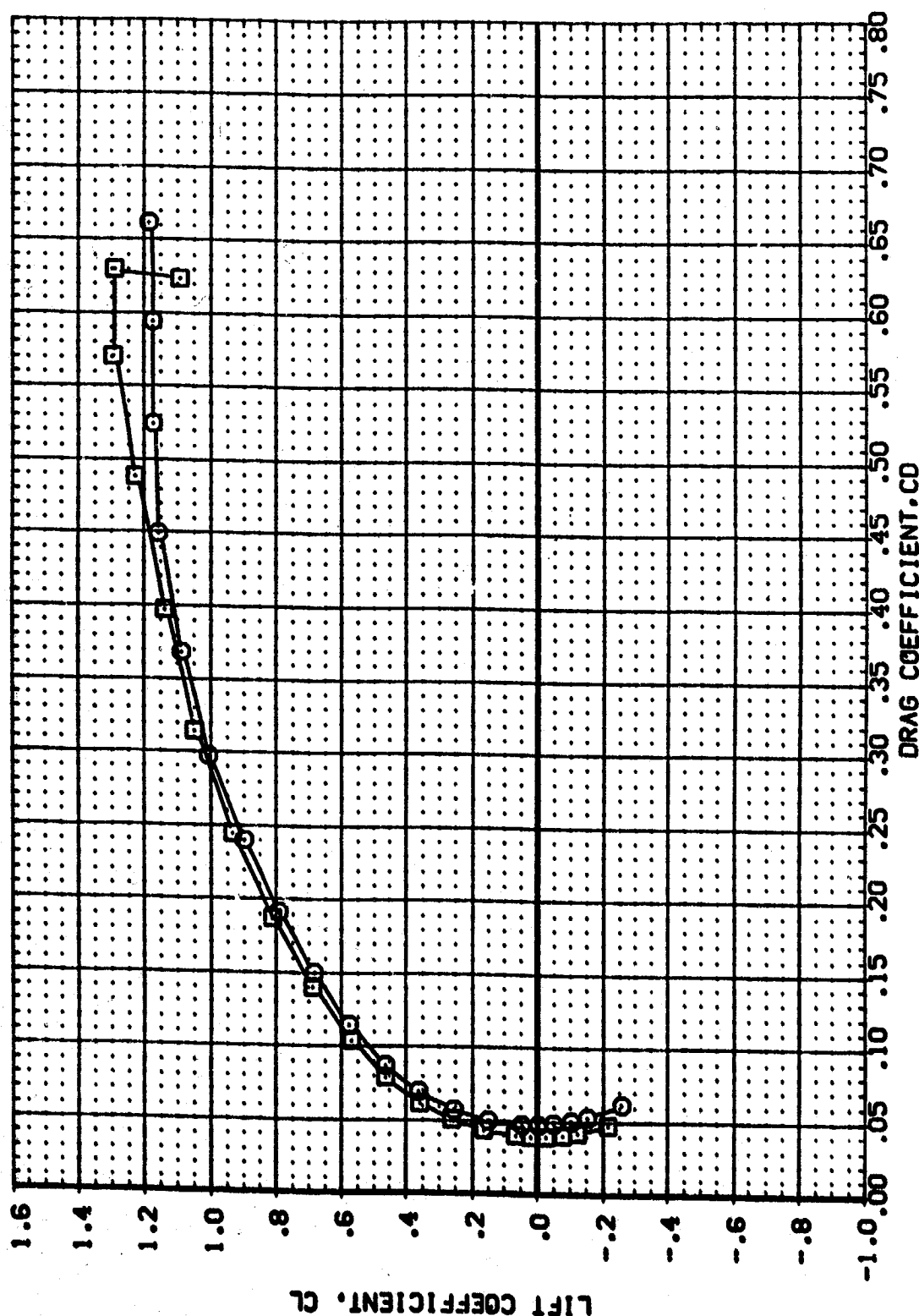


FIG 21 LONGITUDINAL CHARACTERISTICS SINGLE NACELLES 6 ENGINE

(A)MACH = .20



DATA SET SYMBOL: 8  
 (CDV038)  
 (CDV001)

CONFIGURATION DESCRIPTION:  
 0A62 826C9 FB47W116E26V8RSX10  
 0A62 826C9 FB V116E26V8RSX5

NACX/L: .000  
 ELEVON: .000  
 BOFLAP: -12.000  
 SPOBRK: .000  
 REF: .000  
 LREF: .000  
 BREF: .000  
 XREF: .000  
 YREF: .000  
 ZREF: .000  
 SCALE: .0405

REFERENCE INFORMATION:  
 4.4119 SQ.FT.  
 19.2259 INCHES  
 37.9359 INCHES  
 44.3813 INCHES  
 15.1875 INCHES  
 .0405 INCHES

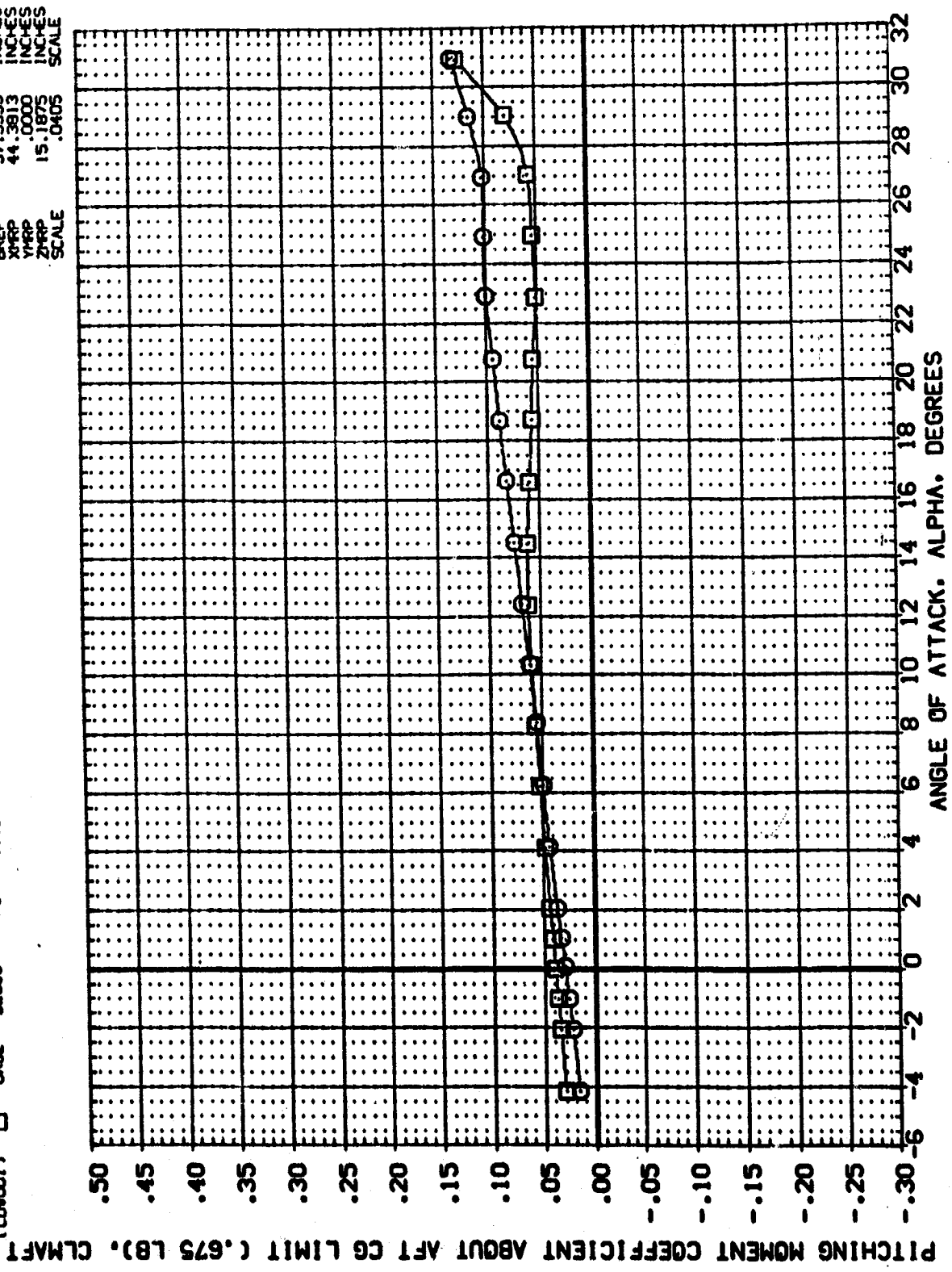


FIG 21 LONGITUDINAL CHARACTERISTICS SINGLE NACELLES 6 ENGINE

(A)MACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	NACA/L	SPDRN	RUDER	REFERENCE INFORMATION
(R0003)	0462 B26C9 F847N116E26V85X10	.000	.000	.000	.000	SREF 4.4119 SQ.FT.
(R0004)	0462 B26C9 F847N116E26V85X10	10.000	.000	.000	.000	LREF 19.2298 INCHES
(R0002)	0462 B26C9 F8 V116E26V85X10	10.000	.000	.000	.000	BREF 37.9359 INCHES
(R0004)	0462 B26C9 F8 V116E26V85X10	10.000	.000	.000	.000	XREF 43.5974 INCHES
						YMRP .0000 INCHES
						ZMRP 15.1875 INCHES
						SCALE .0405

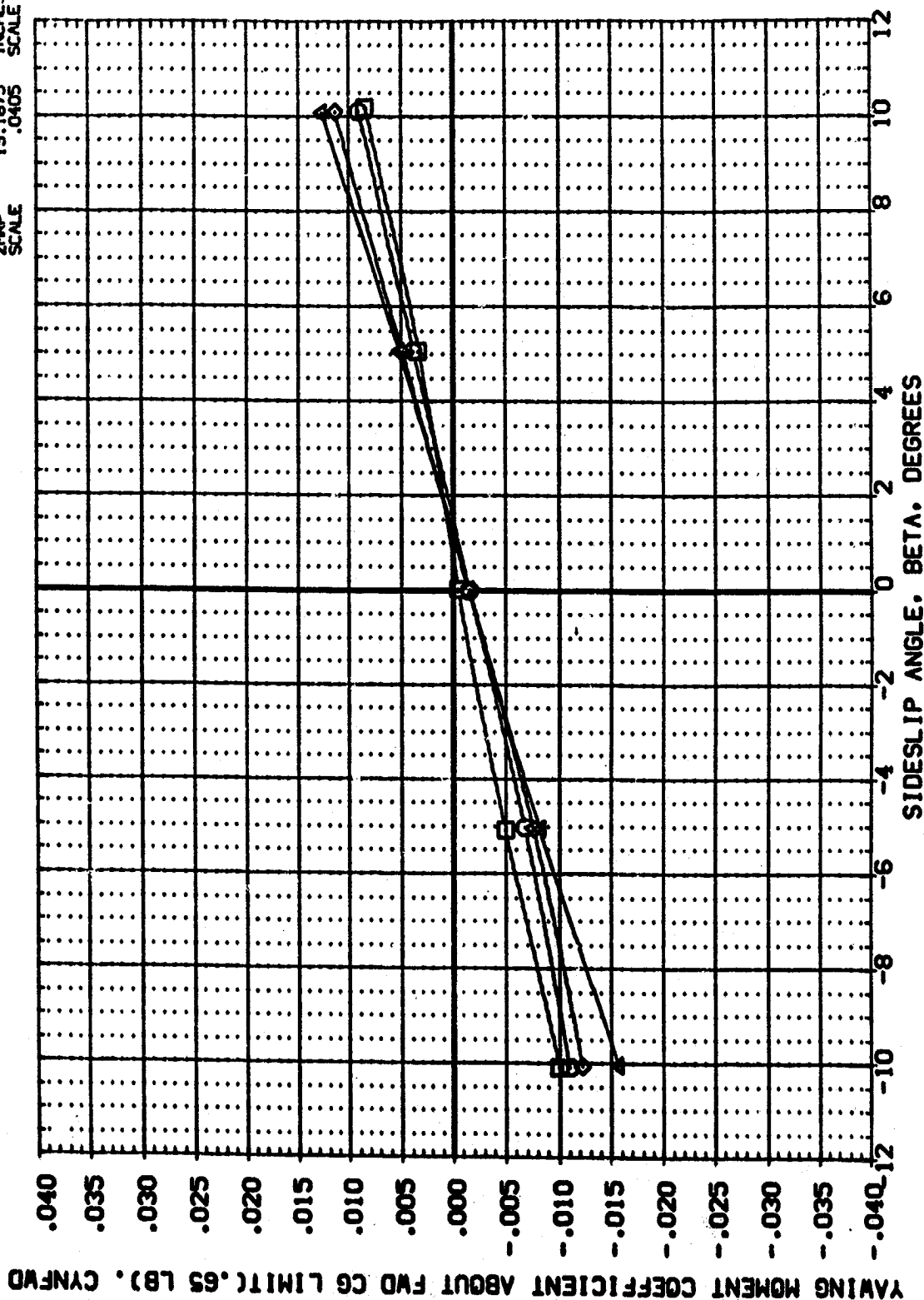


FIG 22 LATERAL - DIRECTIONAL CHARACTERISTICS SINGLE NACELLES 6 ENGINE

(A)MACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	NACA/L	SPDRK	RUDER	REFERENCE INFORMATION
(RDW039)	0A62 B26C9 F8J47V116E26V85X10	.000	.000	.000	.000	SREF 4.4119 SO.FT.
(RDW040)	0A62 B26C9 F8J47V116E26V85X10	10.000	.000	.000	.000	LREF 19.2288 INCHES
(RDW032)	0A62 B26C9 F8 V116E26V85X9	.000	.000	.000	.000	BREF 37.9559 INCHES
(RDW004)	0A62 B26C9 F8 V116E26V85X9	10.000	.000	.000	.000	YMRP 43.5974 INCHES
						ZMRP 15.1875 INCHES
						SCALE .0405

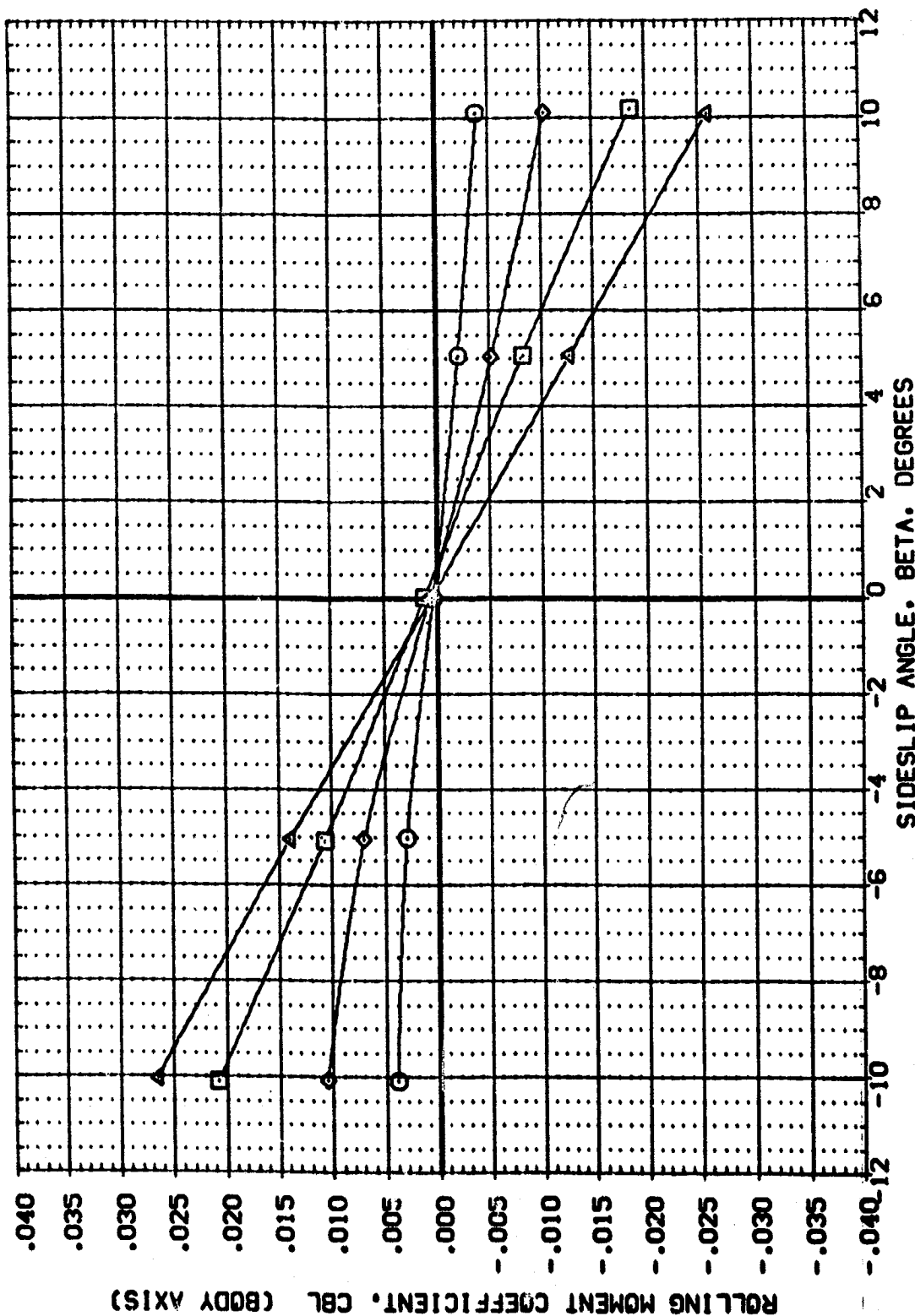


FIG 22 LATERAL - DIIRECTIONAL CHARACTERISTICS SINGLE NACELLES 6 ENGINE

(A)MACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	MACH	SPDRK	RUDDER	REFERENCE INFORMATION
(RDV039)	FB J47V116E26V8RSX10	.000	.000	.000	.000	SREF 4.4119 SO.FT.
(RDV040)	FB J47V116E26V8RSX10	10.000	.000	.000	.000	LREF 19.2299 INCHES
(RDV041)	FB J47V116E26V8RSX10	.000	.000	.000	.000	BREF 37.9359 INCHES
(RDV042)	FB J47V116E26V8RSX10	10.000	.000	.000	.000	MREF 43.5974 INCHES
(RDV043)	FB J47V116E26V8RSX10	.000	.000	.000	.000	ZREF 15.1875 INCHES
(RDV044)	FB J47V116E26V8RSX10	.000	.000	.000	.000	SCALE .0405 INCHES

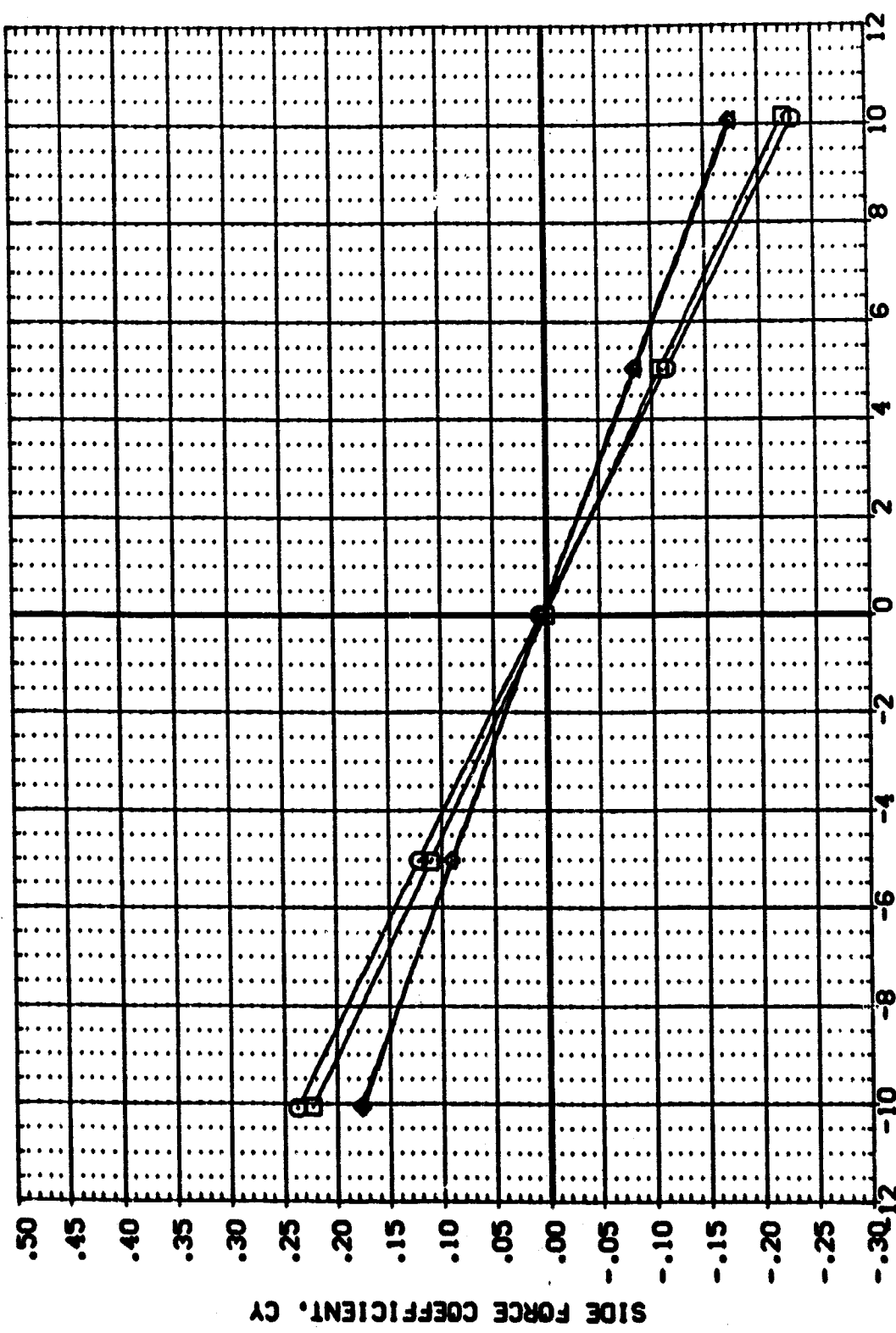


FIG 22 LATERAL - DIRECTIONAL CHARACTERISTICS SINGLE NACELLES 6 ENGINE

(A)MACH = .20

DATA SET SYMBOL: (ED0039) ☐ 0A62 826C9 FB8 V116E26V83X10  
 (ED0002) ☐ 0A62 826C9 FB8 V116E26V83X10

MACUL ELEVON BOFLAP SPDRK  
 .000 .000 -12.000 .000

REFERENCE INFORMATION  
 SREF 4.4119 50.FT.  
 LREF 19.2299 INCHES  
 BREF 37.9359 INCHES  
 YARP 43.5974 INCHES  
 ZARP .0000 INCHES  
 SCALE 15.1875 INCHES  
 .0405 SCALE

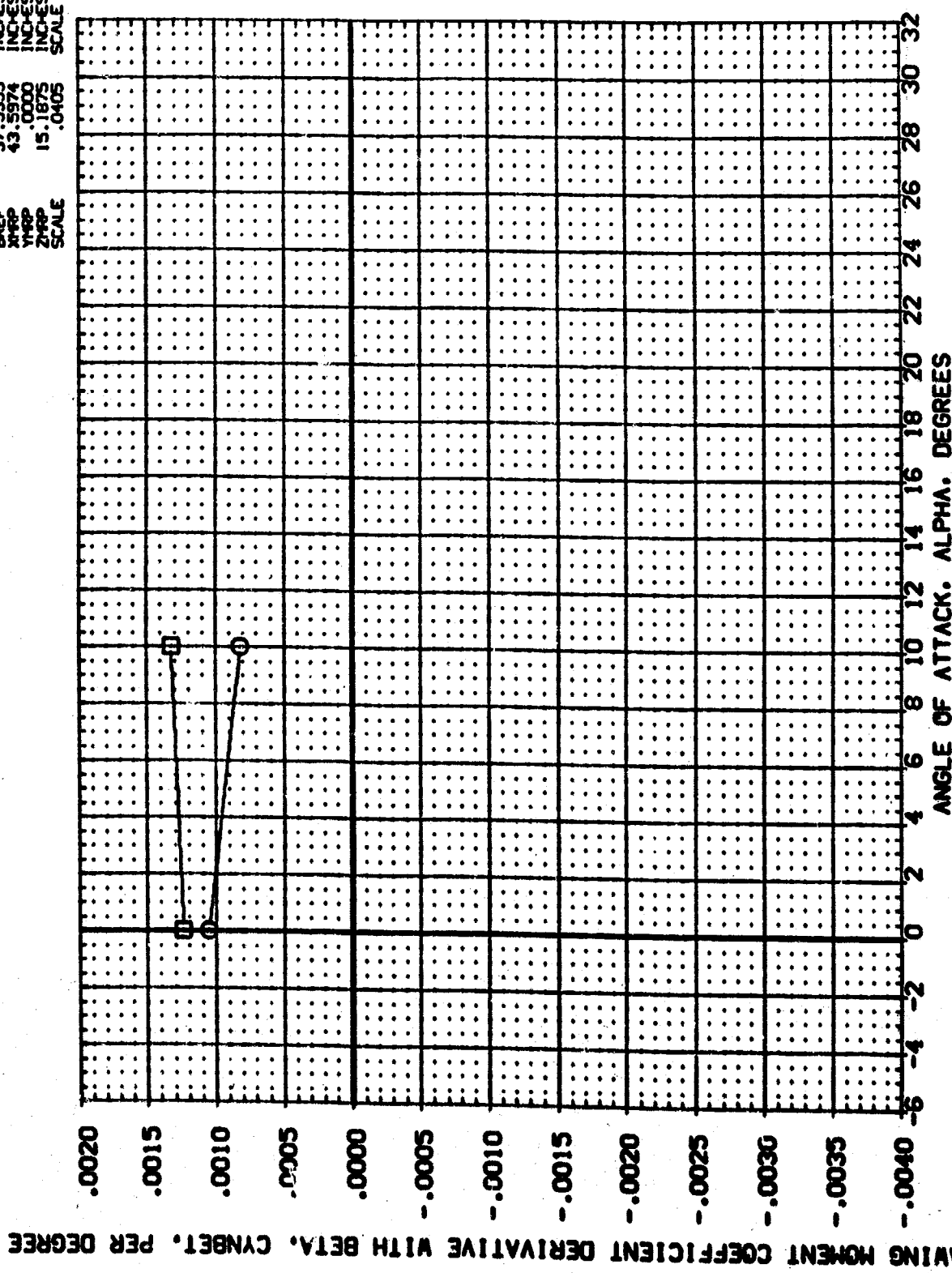


FIG 22 LATERAL - DIRECTIONAL CHARACTERISTICS SINGLE NACELLES 6 ENGINE

REFERENCE INFORMATION	
SREF	4.4119 SQ.FT.
LINEF	19.2259 INCHES
BREF	37.9359 INCHES
XHPF	43.5574 INCHES
YHPF	.0000 INCHES
ZHPF	15.1875 INCHES
	.0405 SCALE



DATA SET SYMBOL: 8  
 (ED0078) 0452 825C3 FBJ47V116ZSNV83X110  
 (ED0002) 0452 825C3 FB V116ZSNV83X110

MAC/L ELEVON 807 LAP SPOROK  
 .000 .000 -12.000 .000

REFERENCE INFORMATION  
 SREF 4.4119 SD.FT  
 LREF 19.2258 INCHES  
 BREF 37.9359 INCHES  
 XREF 43.5974 INCHES  
 YREF .0000 INCHES  
 ZREF 15.1875 INCHES  
 SCALE .0405 SCALE

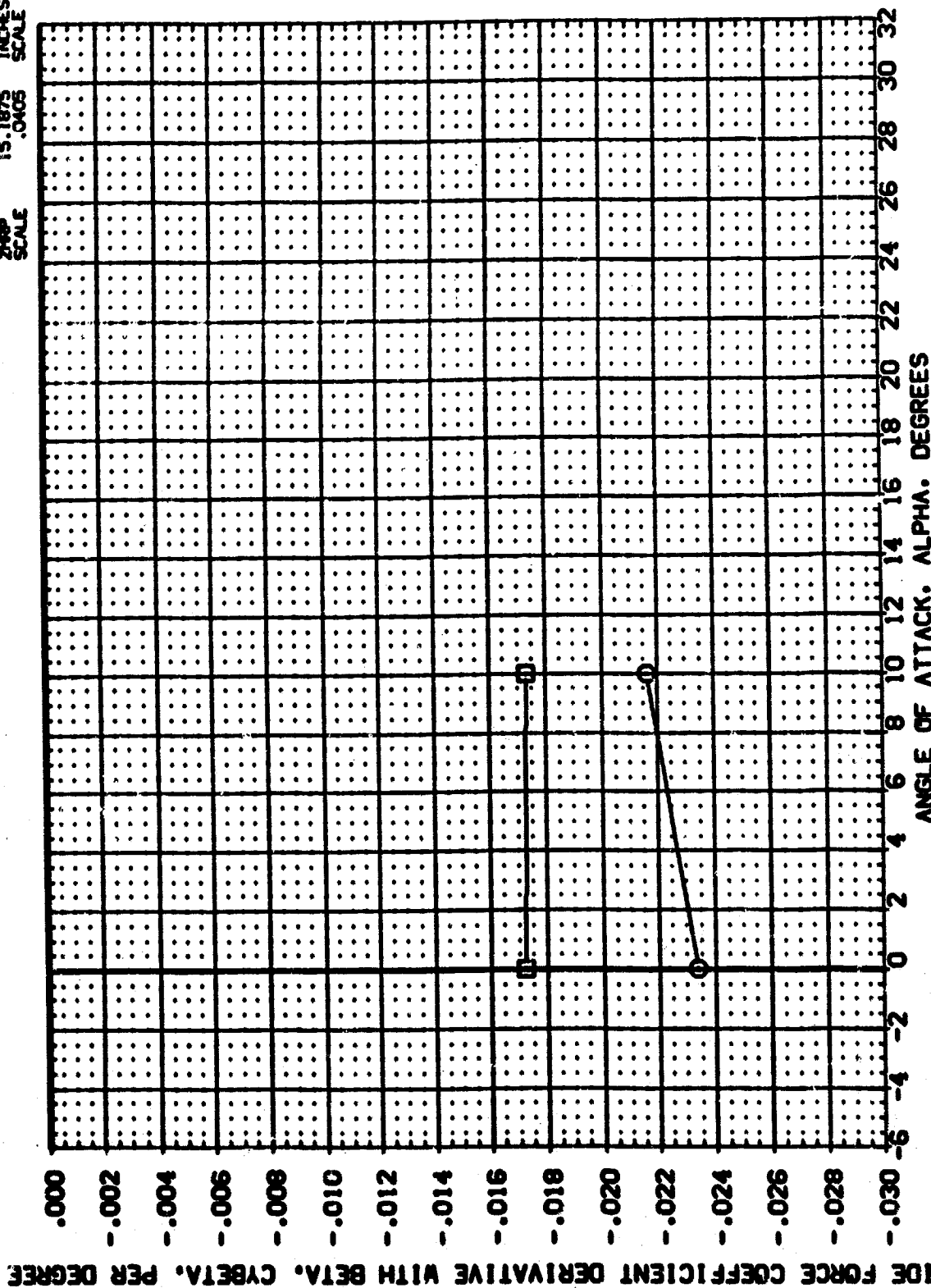
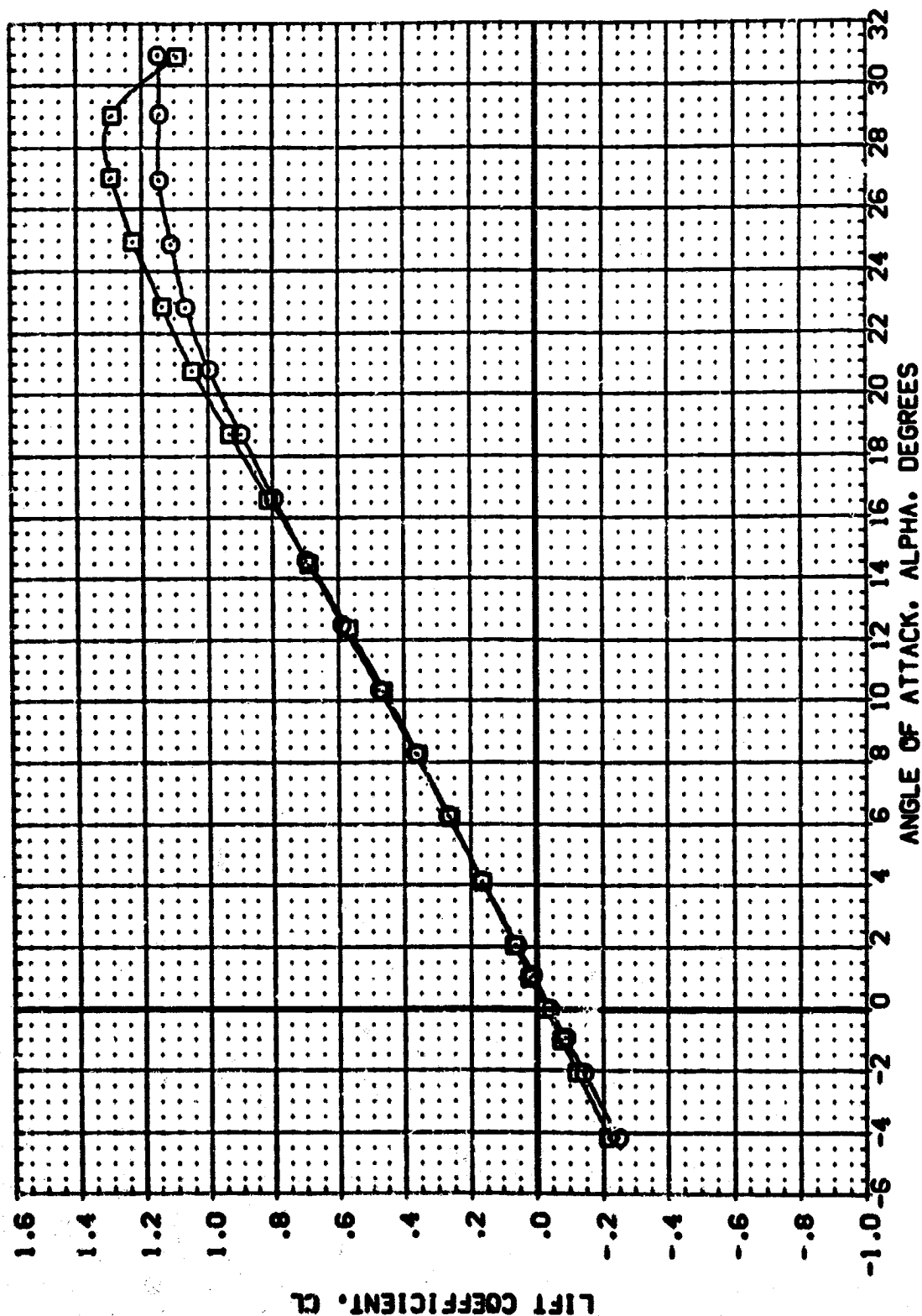


FIG 22 LATERAL - DIRECTIONAL CHARACTERISTICS SINGLE NACELLES 6 ENGINE

	REFERENCE INFORMATION	SO.FT.
SREF	4.4119	INCHES
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XHP	43.5974	INCHES
YHP	.0000	INCHES
ZHP	15.1875	INCHES
	.0465	SCALE



**FIG 23**   **LONGITUDINAL CHARACTERISTICS**   **CLUSTERS 5 NACELLES X0 = 950**

**(A)MACH = .20**

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DATA SET SYMBOL (AD001) 8  
 CONFIGURATION DESCRIPTION  
 QAS2 B26C3 FB 45W116E26V8S10  
 QAS2 B26C3 FB 45W116E26V8S10

NACVL ELEVON BDFLAP SPORBNK  
 .000 .000 -12.000 .000  
 .000 .000 -12.000 .000

REFERENCE INFORMATION  
 REF 4.4119 50. FT.  
 LREF 19.2289 INCHES  
 BREF 37.9359 INCHES  
 XHREF 43.5974 INCHES  
 YHREF .0000 INCHES  
 ZHREF 15.1875 INCHES  
 SCALE .0405

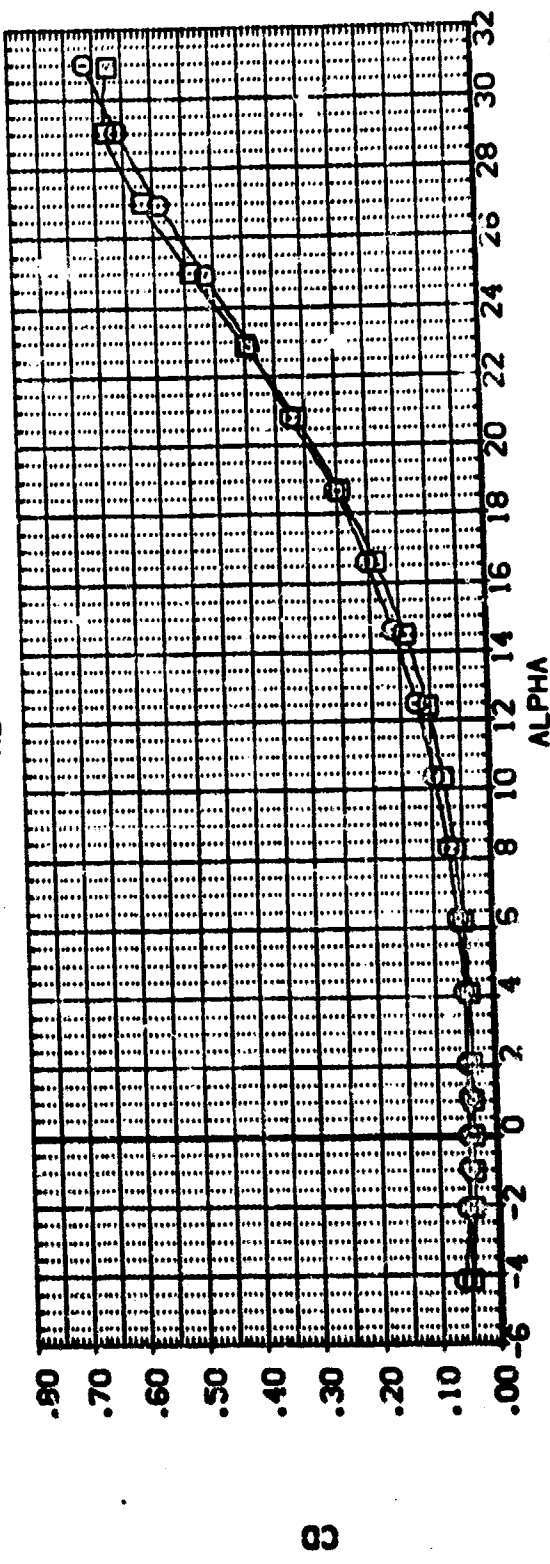
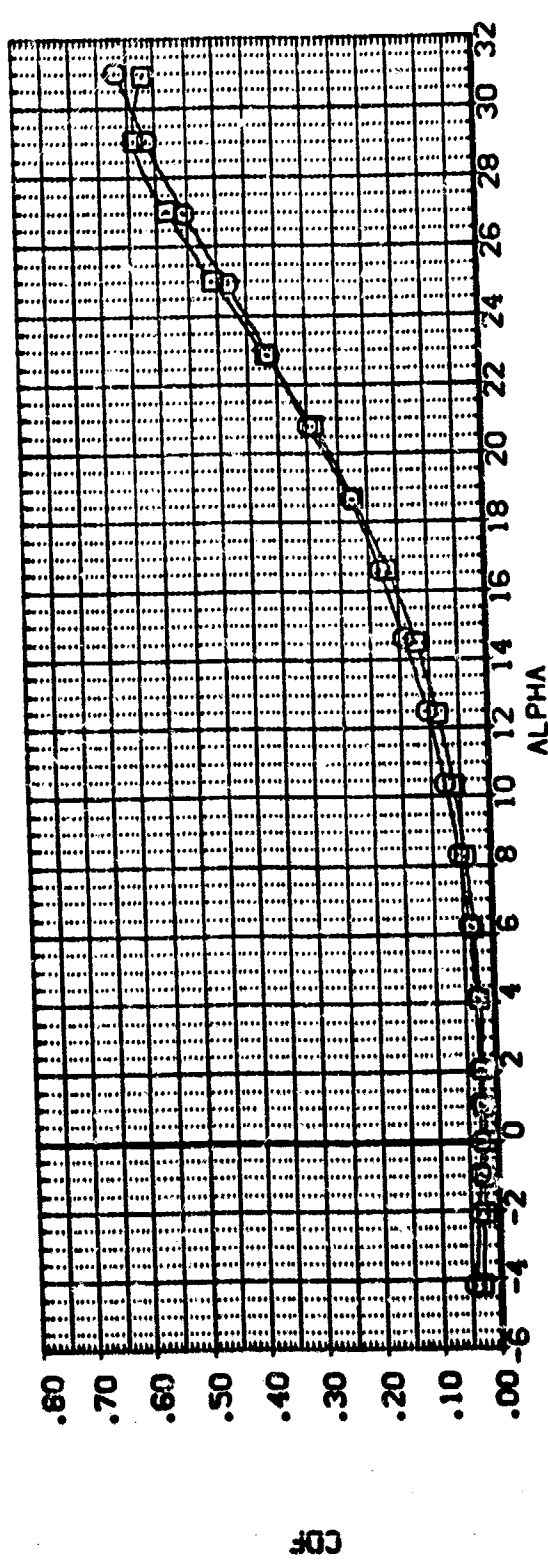


FIG 23 LONGITUDINAL CHARACTERISTICS  
 CLUSTERS 5 NACELLES X0 = 950  
 (A)MACH = .20  
 PAGE 161

DATA SET SYMBOL: 0A62 0A62 0A62  
 (ADW041) (ADW041) (ADW041)  
 CONFIGURATION DESCRIPTION: FB449V116E26V85X10  
 FB V116E26V85X9

NACA/L: .000  
 ELEVON: .000  
 BOFLAP: .000  
 SPDRK: .000  
 REFERENCE INFORMATION:  
 SREF: 4.4119 INCHES  
 LREF: 19.2259 INCHES  
 BREF: 37.9359 INCHES  
 XMRP: 43.5974 INCHES  
 YMRP: .0000 INCHES  
 ZMRP: 15.1875 INCHES  
 SCALE: .0405

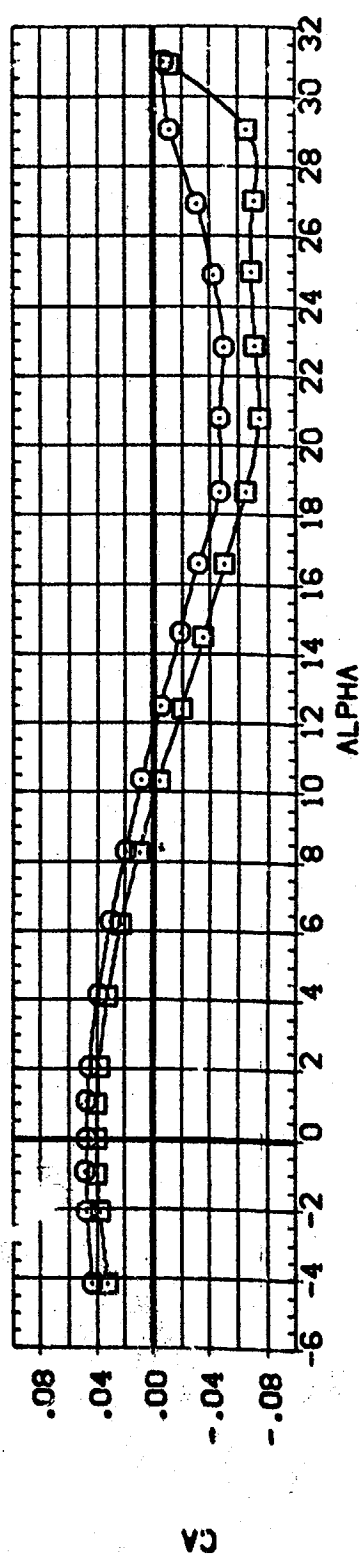
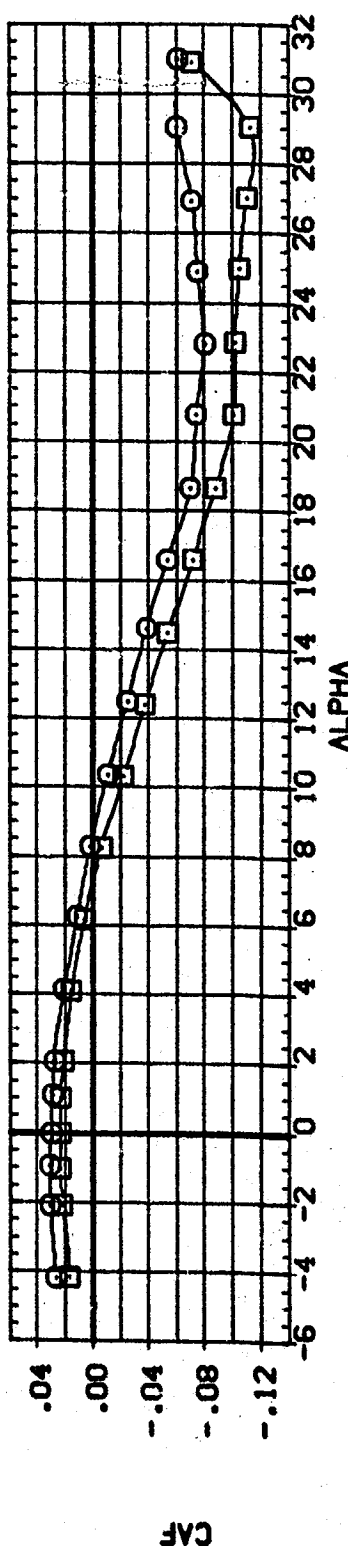
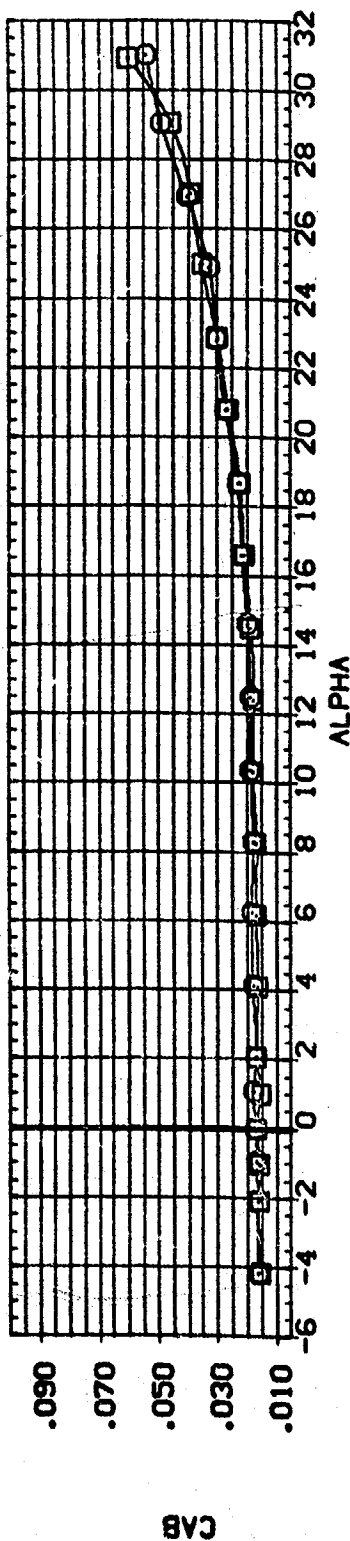
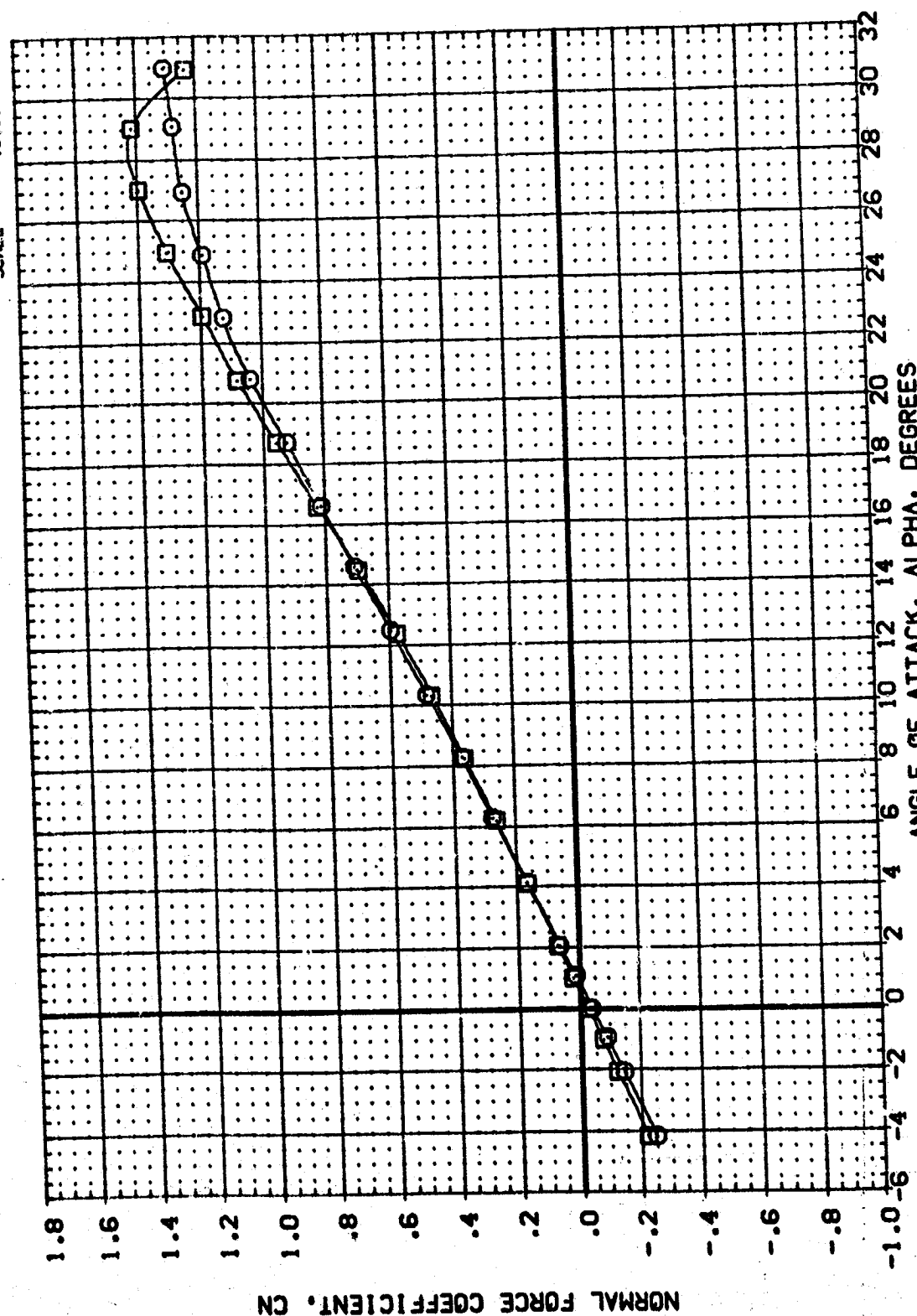


FIG 23 LONGITUDINAL CHARACTERISTICS  
 (A)MACH = .20  
 CLUSTERS 5 NACELLES X0 = 950  
 PAGE 162

DATA SET SYMBL. CONFIGURATION DESCRIPTION  
 (AD001) 0A62 B26C9 F8/49W116E26V8R5X10  
 (AD001) 0A62 B26C9 F8 V116E26V8R5X10

NACX/L ELEVON BOFLAP SPOBRK  
 .000 .000 -12.000 .000

REFERENCE INFORMATION  
 SREF 4.4119 SQ.FT.  
 LREF 19.2299 INCHES  
 BREF 37.9359 INCHES  
 XMRP 43.5974 INCHES  
 YMRP .0000 INCHES  
 ZMRP 15.1875 INCHES  
 SCALE .0405



CLUSTERS 5 NACELLES X0 = 950

FIG 23 LONGITUDINAL CHARACTERISTICS

(A)MACH = .20

DATA SET SYMBOL (ADW001)  CONFIGURATION DESCRIPTION  
 0A62 B26C9 F8J45V116E26VBR5X10  
 0A62 B26C9 F8 V116E26VBR5X9

NACX/L .000 ELEVON .000 BOFLAP .000 SPDRK .000

REFERENCE INFORMATION  
 SREF 4.4119 50. FT.  
 LREF 19.2259 INCHES  
 BREF 37.9359 INCHES  
 XMRP 43.5974 INCHES  
 YMRP .0000 INCHES  
 ZMRP 15.1875 INCHES  
 SCALE .0405 SCALE

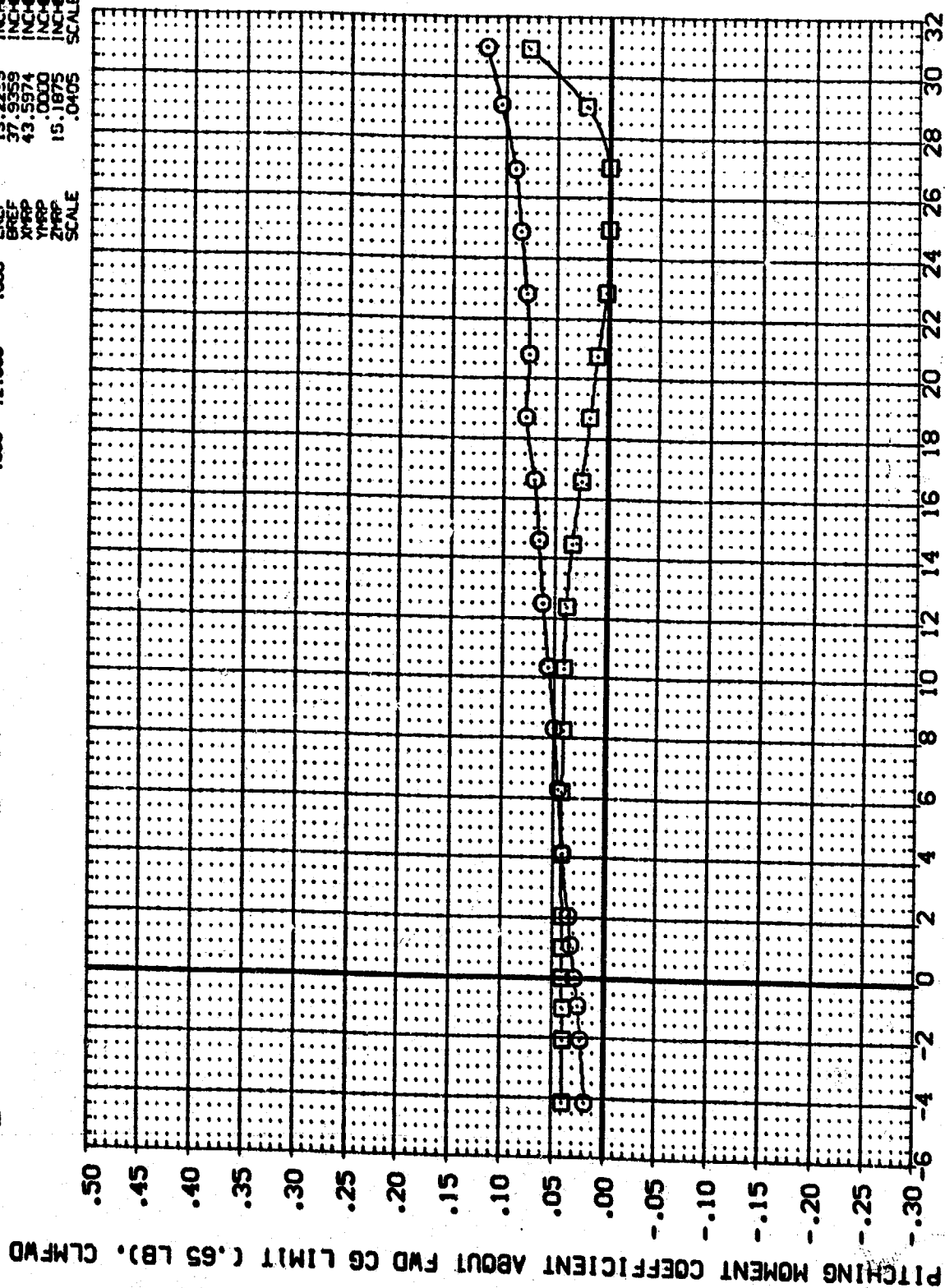


FIG 23 LONGITUDINAL CHARACTERISTICS CLUSTERS 5 NACELLES X0 = 950

(A)MACH = .20



DATA SET SYMBOL: (ADW041) (ADW001)  
CONFIGURATION DESCRIPTION: FB44SV116E26VBR5X10 FB V116E26VBR5X9

NACA/L: .000  
ELEVON: .000  
BOFLAP: -12.000  
SPOBRK: .000  
REFERENCE INFORMATION:  
SREF: 4.4119 50.00  
LREF: 19.2299 INCHES  
BREF: 37.9359 INCHES  
XMRP: 43.5974 INCHES  
YMRP: .0000 INCHES  
ZMRP: 15.1875 INCHES  
SCALE: .0405

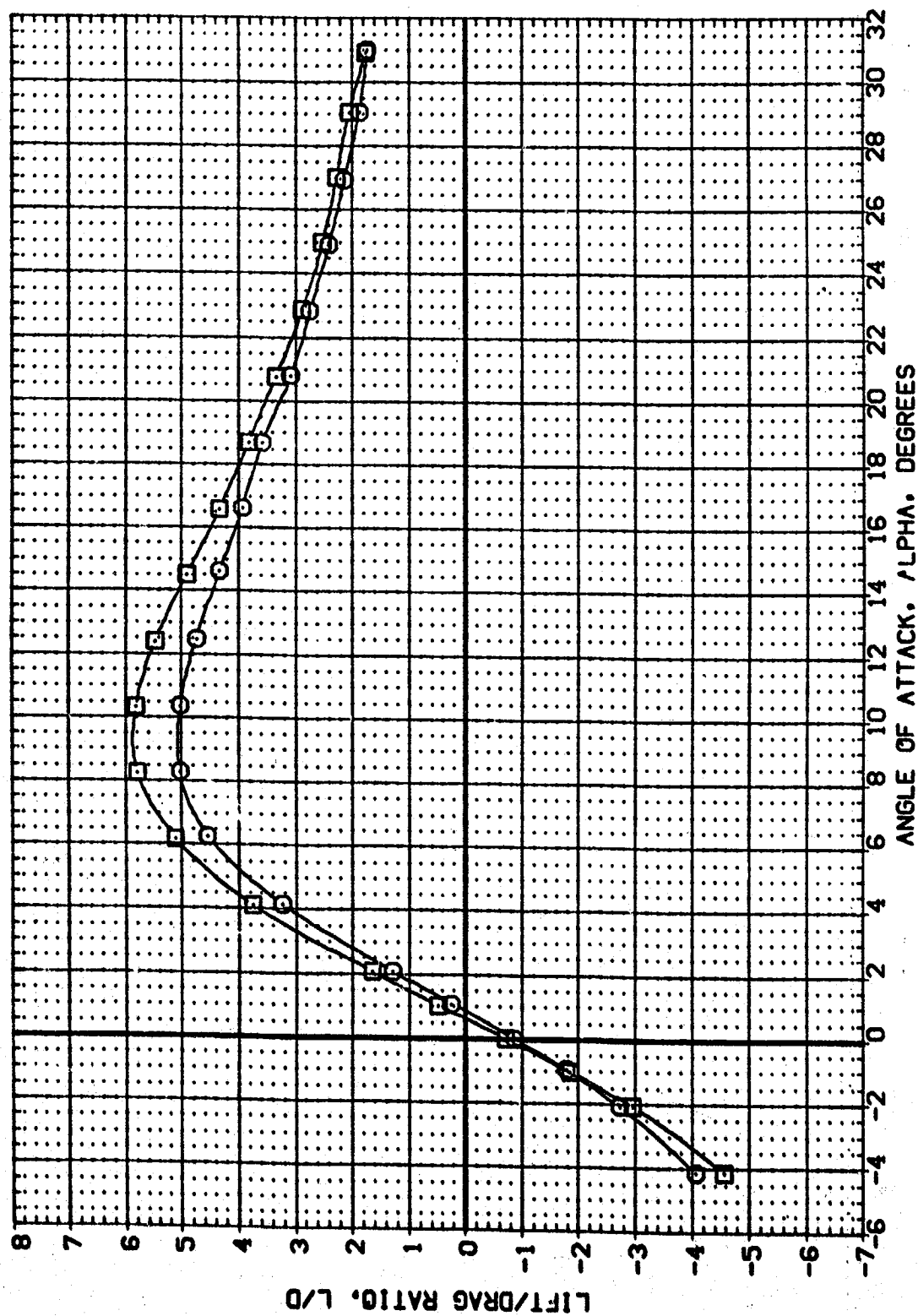



FIG 23 LONGITUDINAL CHARACTERISTICS

CLUSTERS 5 NACELLES X0 = 950

(A)MACH = .20

DATA SET SYMBOL: (ADM041)  (ADM001)

CONFIGURATION DESCRIPTION: FB J4SV116E26V8SX10 FB V116E26V8SX10

MAC/L: .000

ELEVON: .000

BD/FLAP: .000

SPDRK: .000

REFERENCE INFORMATION:

SREF	4.4119	SO.FT
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XGRP	43.5974	INCHES
YGRP	.0000	INCHES
ZGRP	15.1875	INCHES
SCALE	.0405	SCALE

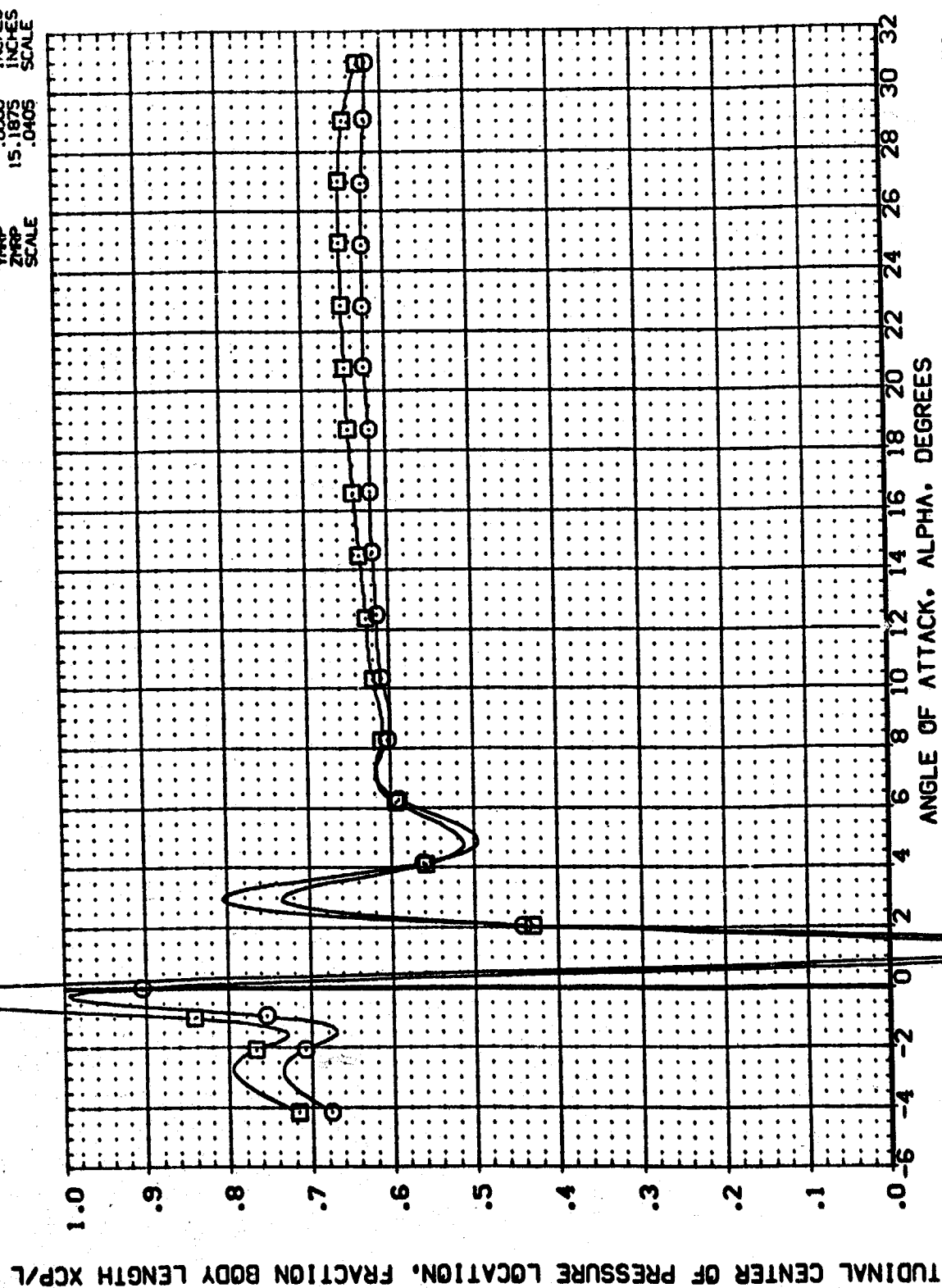


FIG 23 LONGITUDINAL CHARACTERISTICS

CLUSTERS 5 NACELLES X0 = 950

(A)MACH = .20

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DATA SET SYMBOL: 0462 0462 0462  
(ADN041) (ADN001) (ADN001)  
CONFIGURATION DESCRIPTION: FB 45W116Z26V85X10  
FB 45W116Z26V85X9

NACA/ELEVON: .000 .000 .000  
80° FLAP: .000 -12.000 -12.000  
SPORCK: .000 .000 .000

REFERENCE INFORMATION:  
SREF: 4.4119 SO. FT.  
LREF: 19.2299 INCHES  
BREF: 37.9359 INCHES  
XMRP: 43.5974 INCHES  
YMRP: .0000 INCHES  
ZMRP: 15.1875 INCHES  
SCALE: .0405

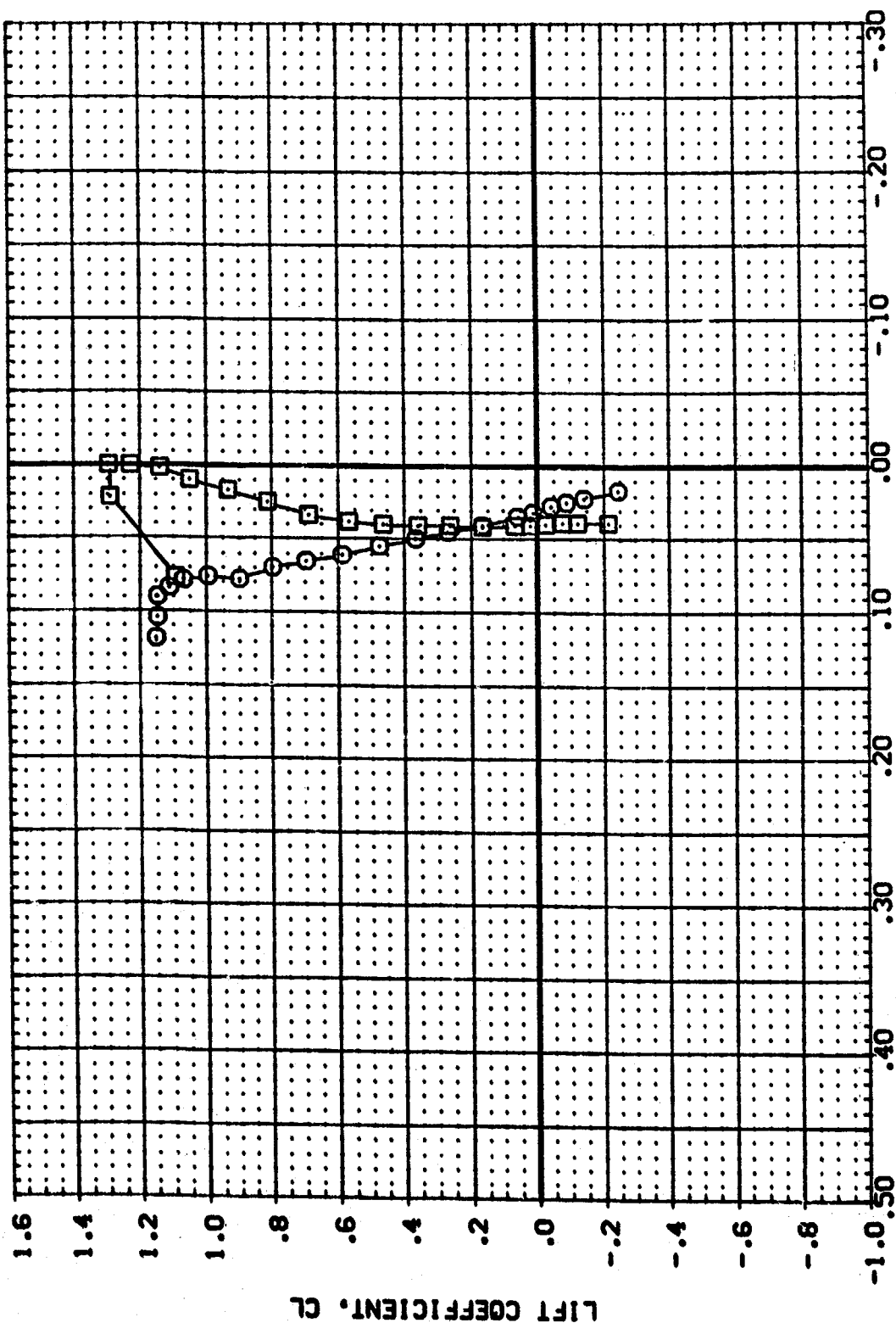


FIG 23 LONGITUDINAL CHARACTERISTICS CLUSTERS 5 NACELLES X0 = 950

(A)MACH = .20

DATA SET SYMBOL    CONFIGURATION DESCRIPTION  
 (ADW001)    □    0A52    B26C9    F8J45V116E26V8R5X10  
 (ADW001)    □    0A52    B26C9    F8    V116E26V8R5X5

NACA/L    ELEVON    BDFLAP    SPOBRK    REFERENCE INFORMATION  
 .000    .000    -12.000    .000    SREF    4.4119    50.FT.  
          .000    -12.000    .000    LREF    19.2289    INCHES  
          .000    -12.000    .000    BREF    37.9359    INCHES  
          .000    -12.000    .000    XTRP    43.5974    INCHES  
          .000    -12.000    .000    YTRP    .0000    INCHES  
          .000    -12.000    .000    ZTRP    15.1875    INCHES  
          .000    -12.000    .000    SCALE    .0405    SCALE

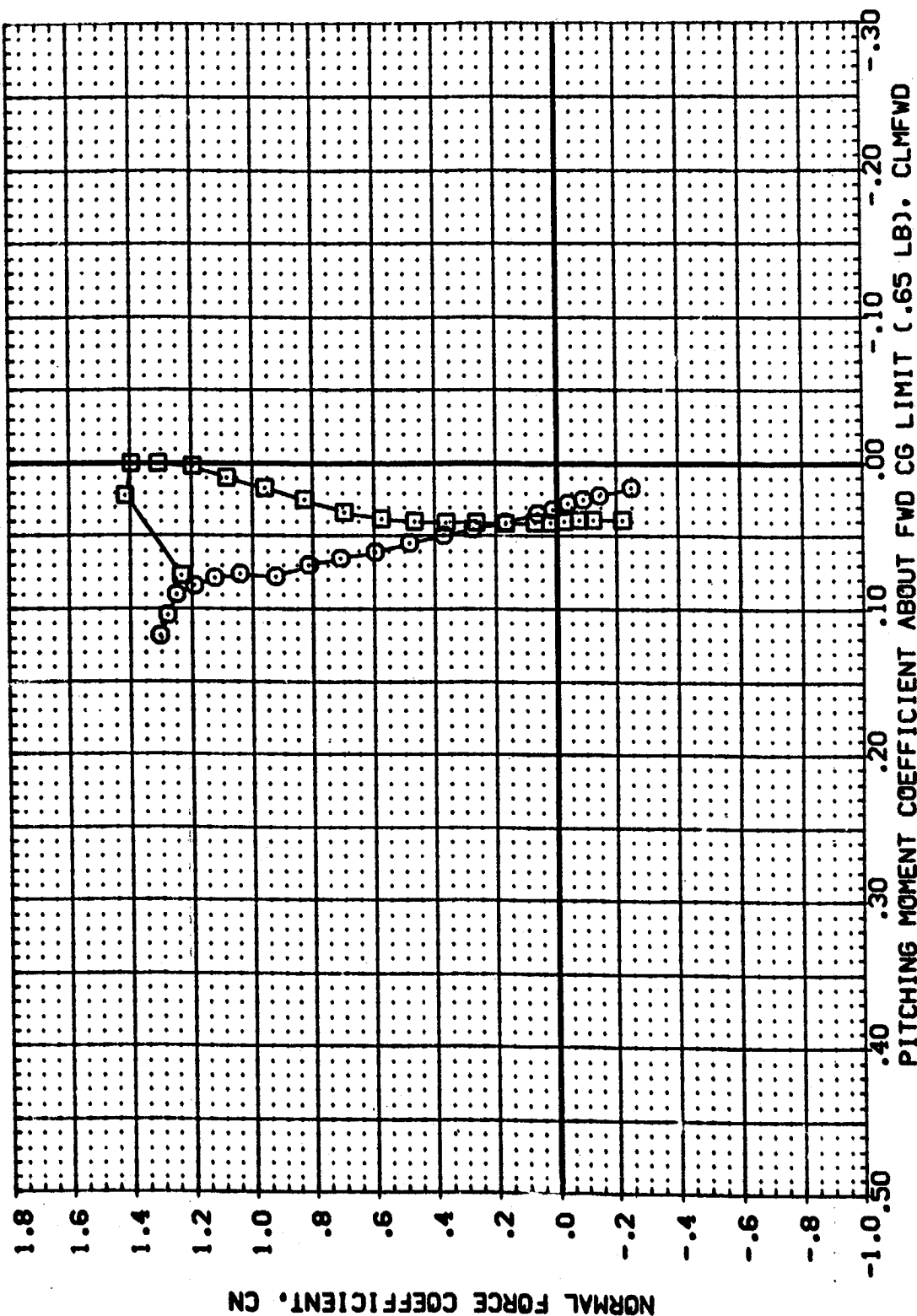


FIG 23 LONGITUDINAL CHARACTERISTICS      CLUSTERS 5 NACELLES X0 = 950

(A)MACH = .20



DATA SET SYMBOL		CONFIGURATION DESCRIPTION		NACX/L		ELEVON		BOFLAP		SPOBRK		REFERENCE INFORMATION	
(AD0041)	0462	B26C9	FB49M11GE26VBR5X10	.000	.000	.000	.000	-12.000	.000	.000	SREF	4.4119	50.FT.
(AD0001)	0462	B26C9	F8 V11GE26VBR5X9								LREF	19.2299	INCHES
											BREF	37.9359	INCHES
											XMRP	43.5974	INCHES
											YMRP	15.0000	INCHES
											ZMRP	15.1875	INCHES
											SCALE	.0405	SCALE

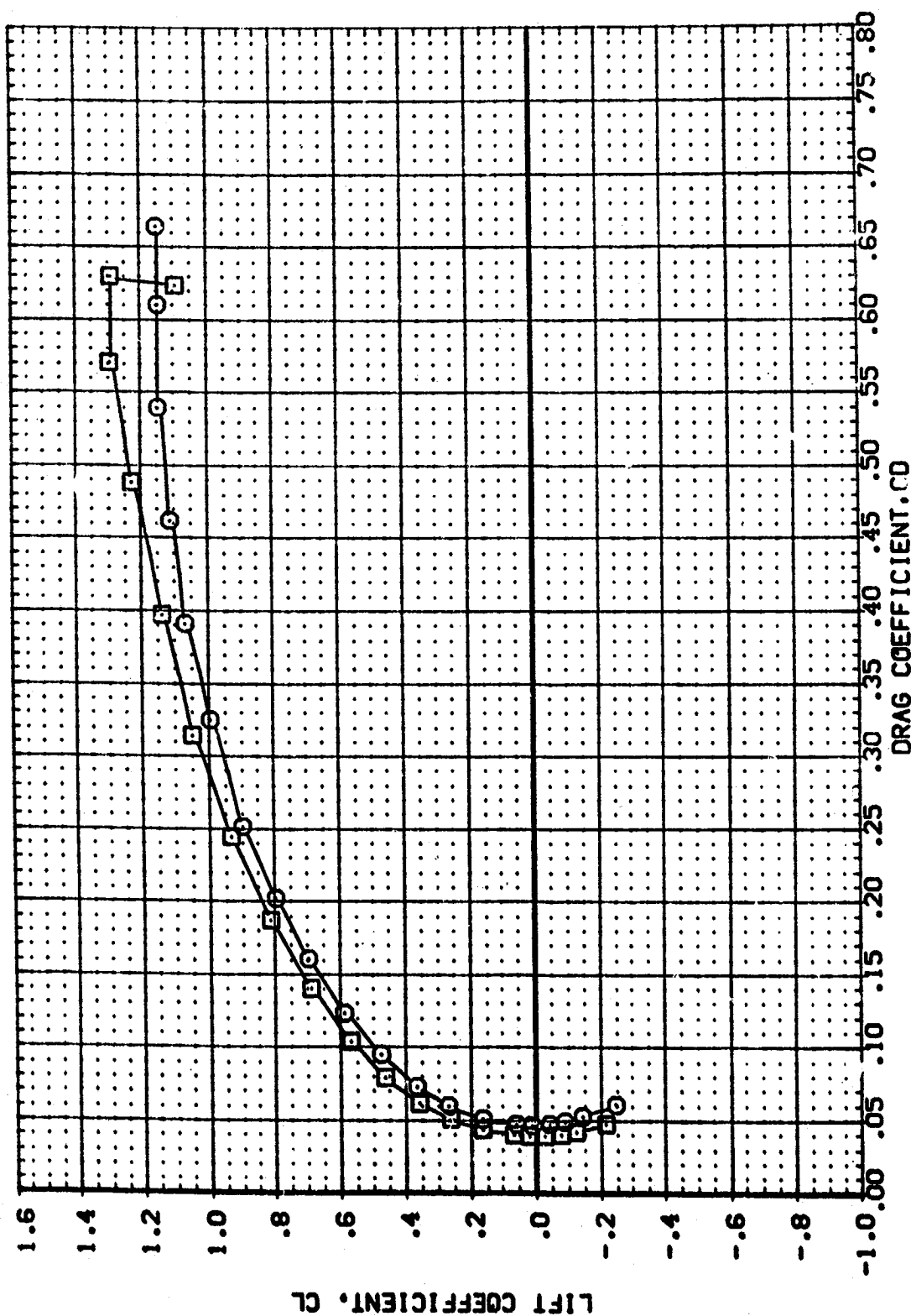


FIG 23 LONGITUDINAL CHARACTERISTICS CLUSTERS 5 NACELLES X0 = 950  
 (A)MACH = .20 PAGE 169

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (CD0001) 0 0A52 826CS FB49SV116E26V85X10  
 (CD0001) 0 0A52 826CS FB VII6E26V85X9

NACA/ELEVON BD/FLAP SPOILER  
 .000 .000 .000 .000

REFERENCE INFORMATION  
 SREF 4.4119 50. FT.  
 LREF 19.2259 INCHES  
 BREF 37.9259 INCHES  
 XMRP 44.3813 INCHES  
 YMRP .0000 INCHES  
 ZMRP 15.1875 INCHES  
 SCALE .0405

PITCHING MOMENT COEFFICIENT ABOUT AFT CG LIMIT (.675 LB). CLMAFT

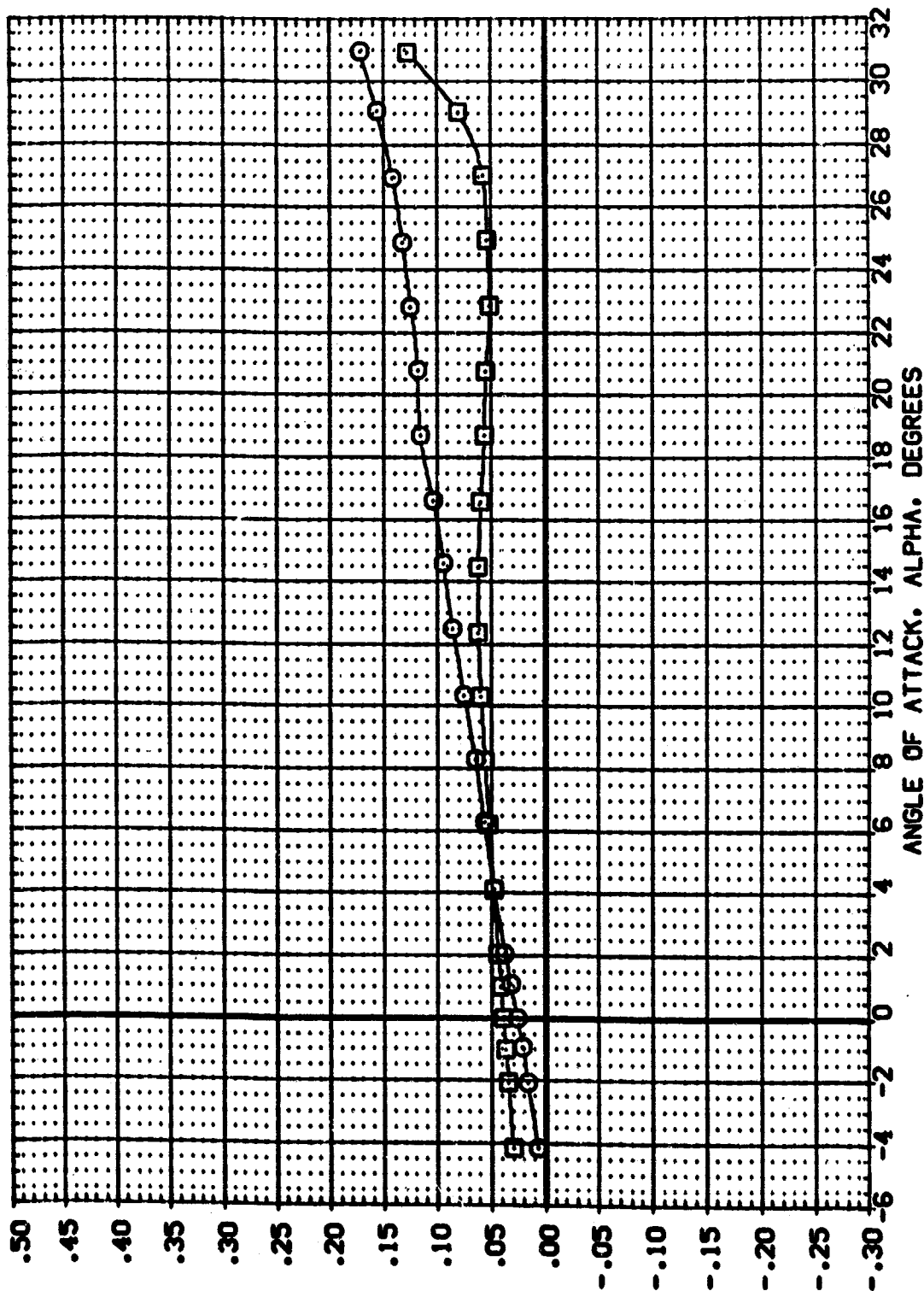


FIG 23 LONGITUDINAL CHARACTERISTICS CLUSTERS 5 NACELLES X0 = 950  
 (A)MACH = .20 PAGE 170

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RM0421)	04G2	B26C9	F8J45W11GE26V85X10
(RM0431)	04G2	B26C9	F8J45W11GE26V85X10
(RM0402)	04G2	B26C9	F8 V11GE26V85X9
(RM0404)	04G2	B26C9	F8 V11GE26V85X9

ALPHA .000  
10.000  
10.000

NACVAL .000  
.000  
.000

SPOBRK .000  
.000  
.000

RUDDER .000  
.000  
.000

REFERENCE INFORMATION

SREF	4.4119	50. FT.
LREF	19.2239	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	15.1875	INCHES
SCALE	.0405	SCALE

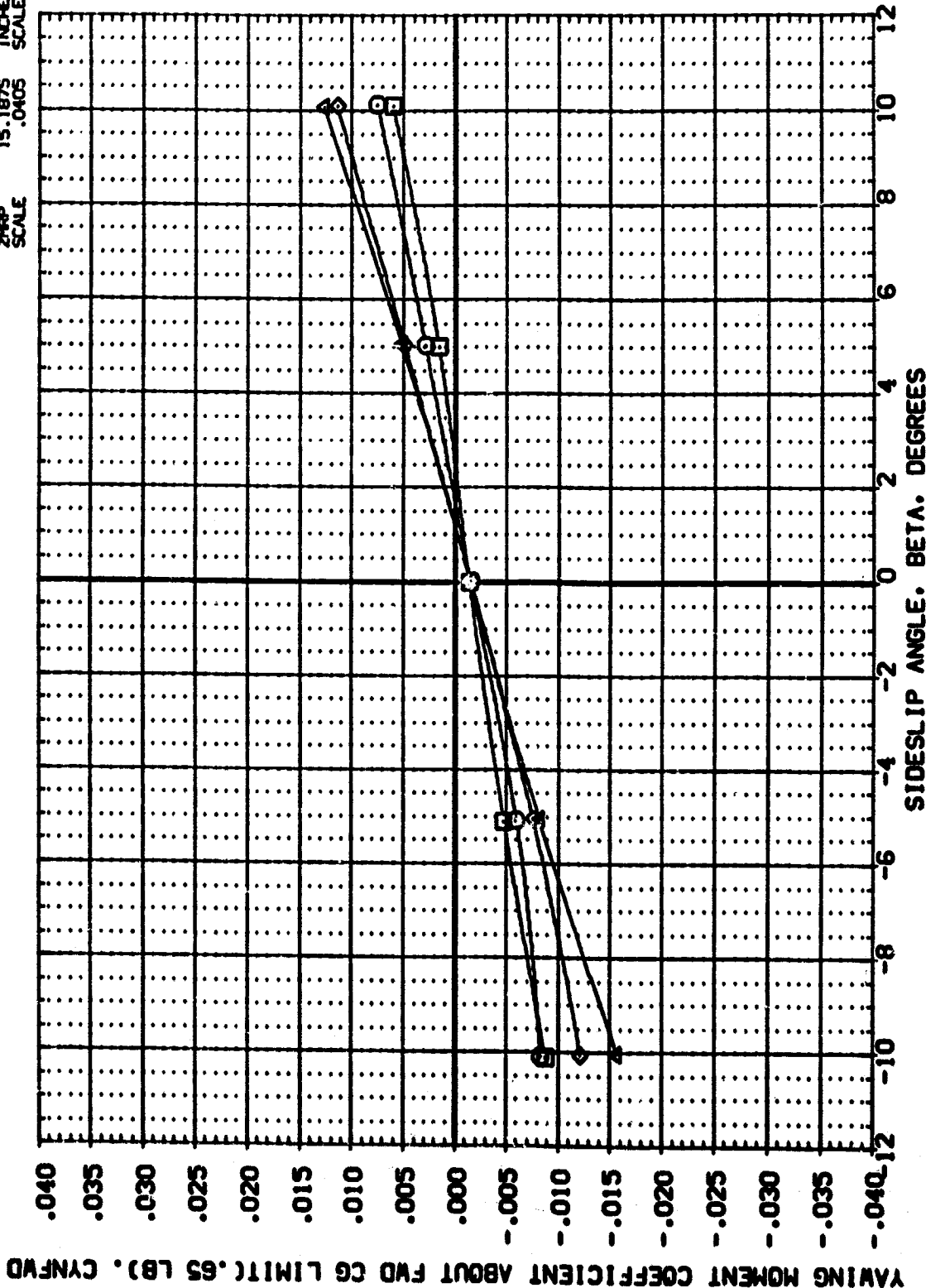


FIG 24 LATERAL - DIRECTIONAL CHARACTERISTICS CLUSTERS 5 NACELLES X0 = 950

(A)MACH = .20

DATA SET SYMBOL    CONFIGURATION DESCRIPTION

(RD0042)	QAG2	B26C9	FBU4SV116E2SVBRX10
(RD0043)	JAG2	B26C9	FBU4SV116E2SVBRX10
(RD0002)	QAG2	B26C9	F8
(RD0004)	QAG2	B26C9	F8

ALPHA    MAC/L    SPDRK    RUDER    REFERENCE INFORMATION

.000	.000	.000	.000	SREF	4.4119	50. FT.
10.000	.000	.000	.000	LREF	19.2259	INCHES
.000	.000	.000	.000	BREF	37.9359	INCHES
10.000	.000	.000	.000	XREF	43.5974	INCHES
				YREF	.0000	INCHES
				ZREF	15.1875	INCHES
				SCALE	.0405	SCALE

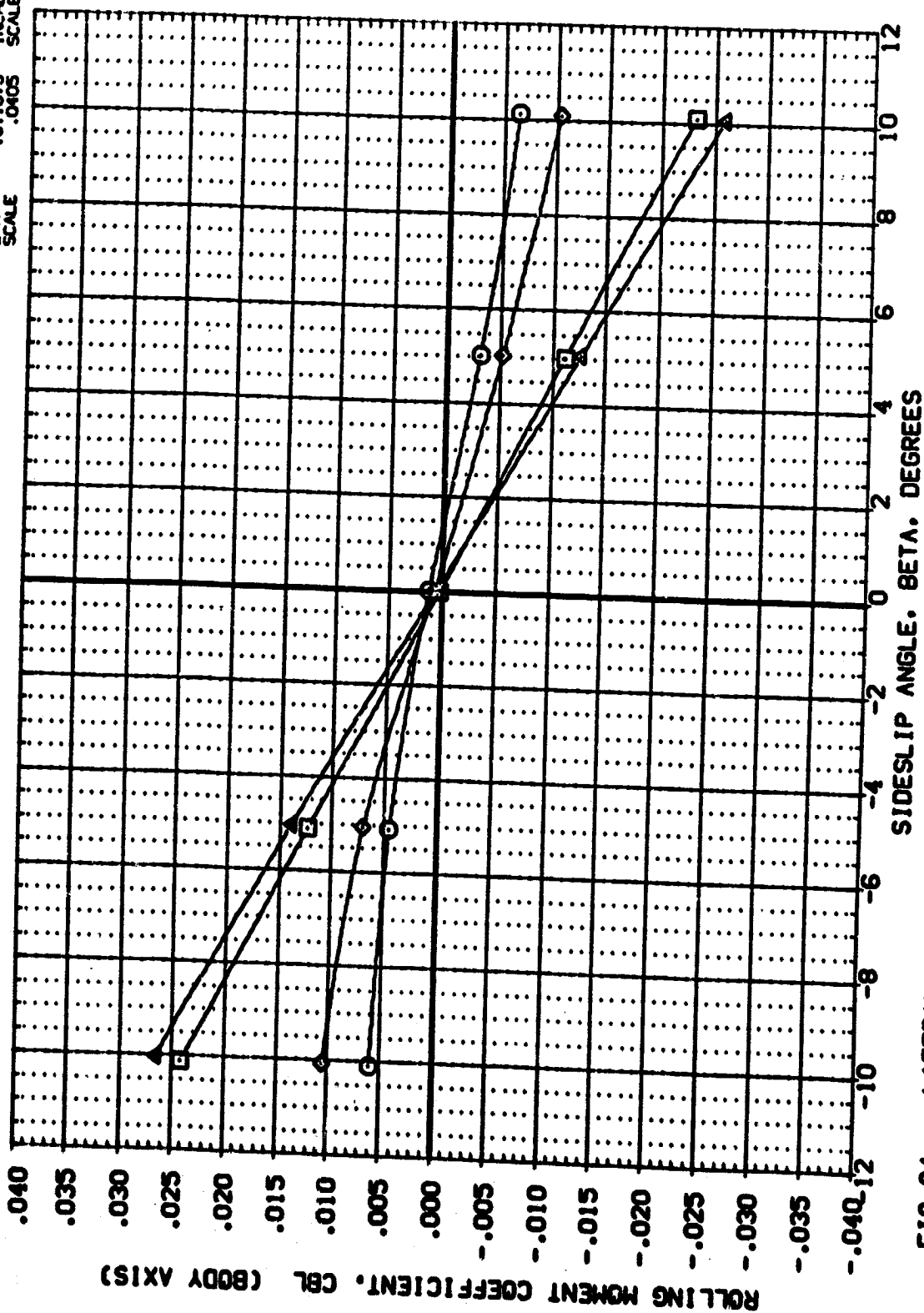


FIG 24 LATERAL - DIRECTIONAL CHARACTERISTICS CLUSTERS 5 NACELLES X0 = 950  
 (A)MACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	NACA	SPRINK	RUBBER	REFERENCE INFORMATION
(RDW042)	QAG2 B26C9	.000	.000	.000	.000	SREF 4.4119 50.FT.
(RDW043)	QAG2 B26C9	10.000	.000	.000	.000	LREF 19.2299 INCHES
(RDW042)	QAG2 B26C9	10.000	.000	.000	.000	SREF 37.9359 INCHES
(RDW044)	QAG2 B26C9	10.000	.000	.000	.000	XREF 43.5974 INCHES
						YREF .0000 INCHES
						ZREF 15.1875 INCHES
						SCALE .0405

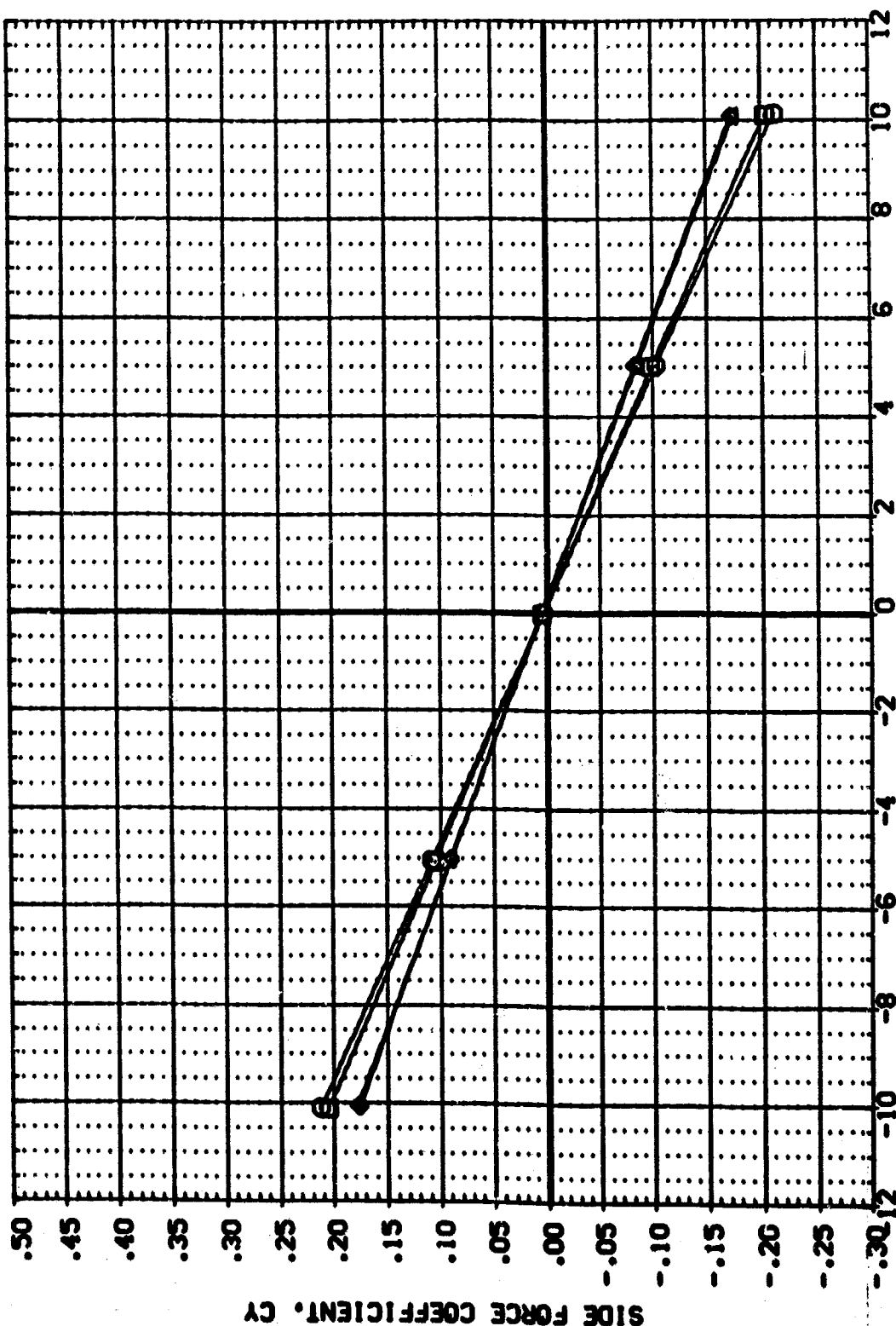
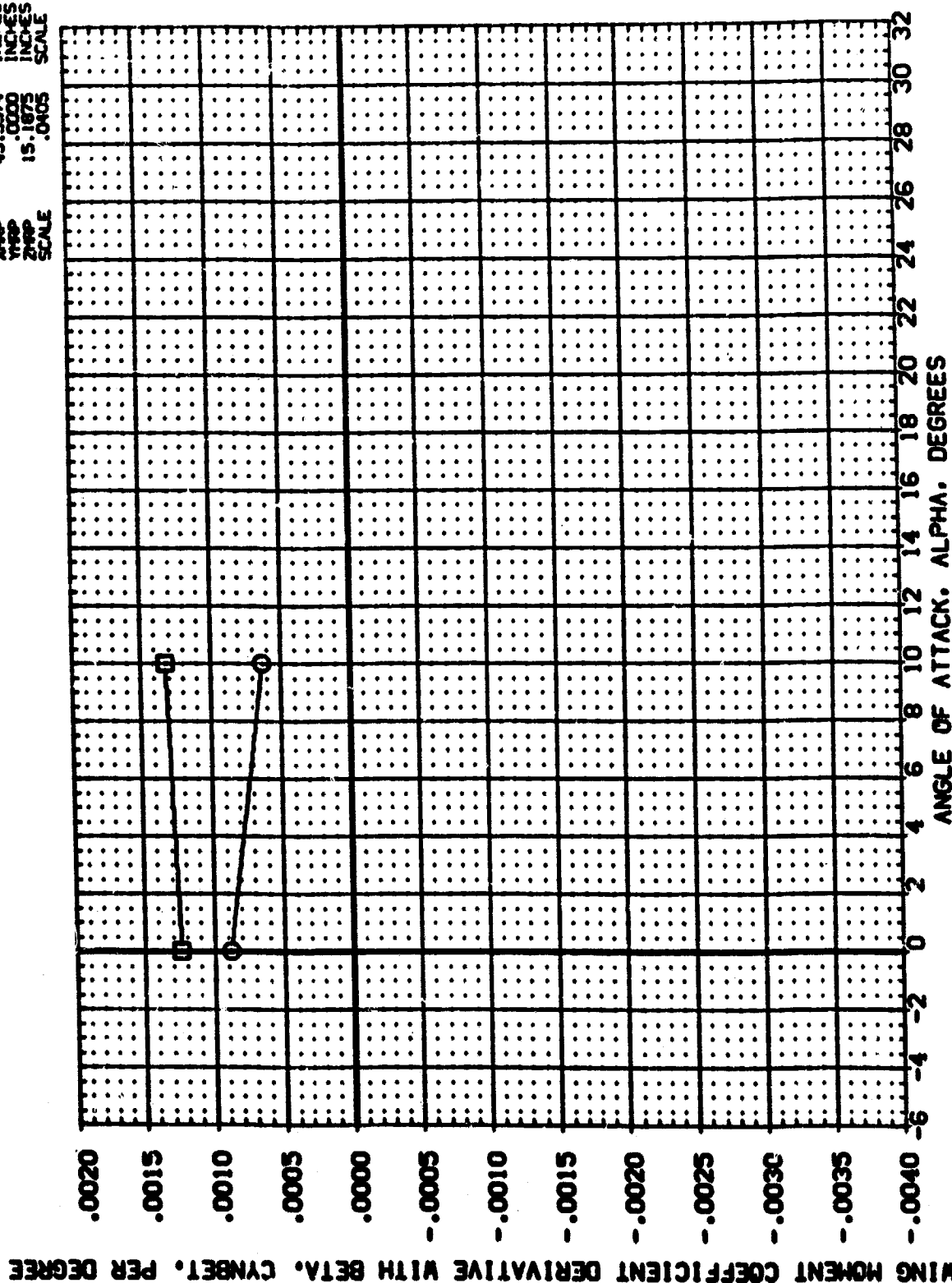


FIG 24 LATERAL - DIRECTIONAL CHARACTERISTICS CLUSTERS 5 NACELLES X0 = 950

(A)MACH = .20

WINDL	ELEV	REFLAP	STURK	REFERENCE INFORMATION	
.000	.000	-12.000	.000	SPEF	4.4119
.000	.000	-13.000	.000	LINE	19.2299
				SPEF	37.5359
				TRAP	43.5974
				TRAP	10.0000
				TRAP	15.1875
				SCALE	.0405
					SO.FT. INCHES
					INCHES
					INCHES
					INCHES
					INCHES
					SCALE



**FIG 24 LATERAL - DIRECTIONAL CHARACTERISTICS CLUSTERS 5 NACELLES X0 = 950**

DATA SET SYMBOL: (EDW002) 8  
 CONFIGURATION DESCRIPTION: 0452 826C3 FB 49V116230V80X10  
 0452 826C3 FB V116230V80X10

NACAL: .000  
 ELEVON: .000  
 BDFLAP: .000  
 SP080K: .000

REFERENCE INFORMATION:  
 SREF: 4.4119 50.FT  
 LREF: 19.2299 INCHES  
 BREF: 37.9359 INCHES  
 YARP: 43.5974 INCHES  
 ZARP: 15.0000 INCHES  
 YARP: 15.1875 INCHES  
 SCALE: .0405

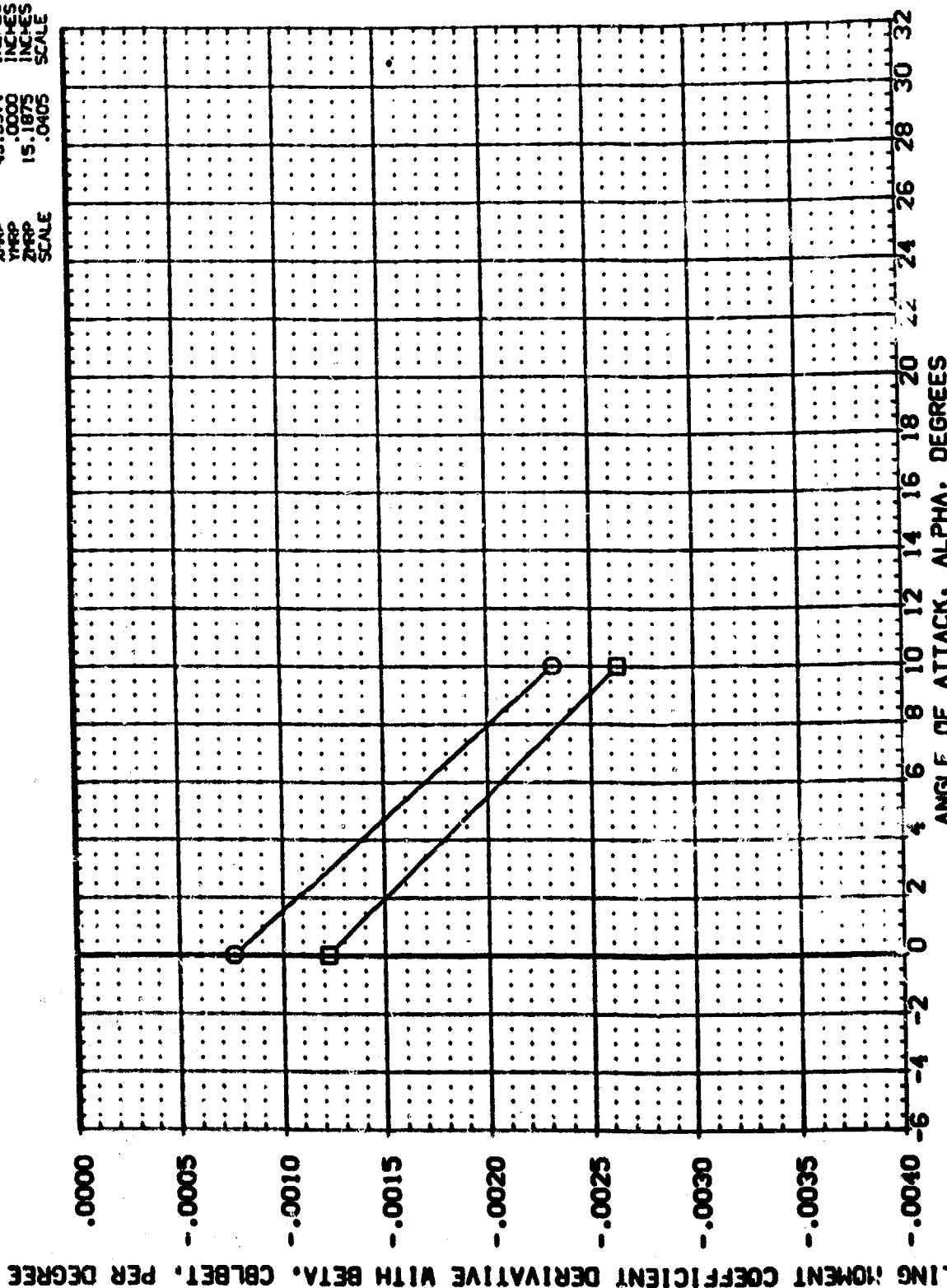


FIG 24 LATERAL - DIRECTIONAL CHARACTERISTICS CLUSTERS 5 NACELLES X0 = 950  
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DATA SET SYMBOL: (EDV042) □ (EDV002) □

CONFIGURATION DESCRIPTION: FB149V116L26V85X10 FB W116L26V85X9

REFERENCE INFORMATION:

SPDRK	BOFLAP	ELEVON	NACK/L	SREF	YREF	XMRP	YMRP	ZMRP	SCALE	SO. FT.	INCHES
.000	-12.000	.000	.000	4.4119	19.2258	37.9359	43.5974	.0000	.0405	INCHES	INCHES

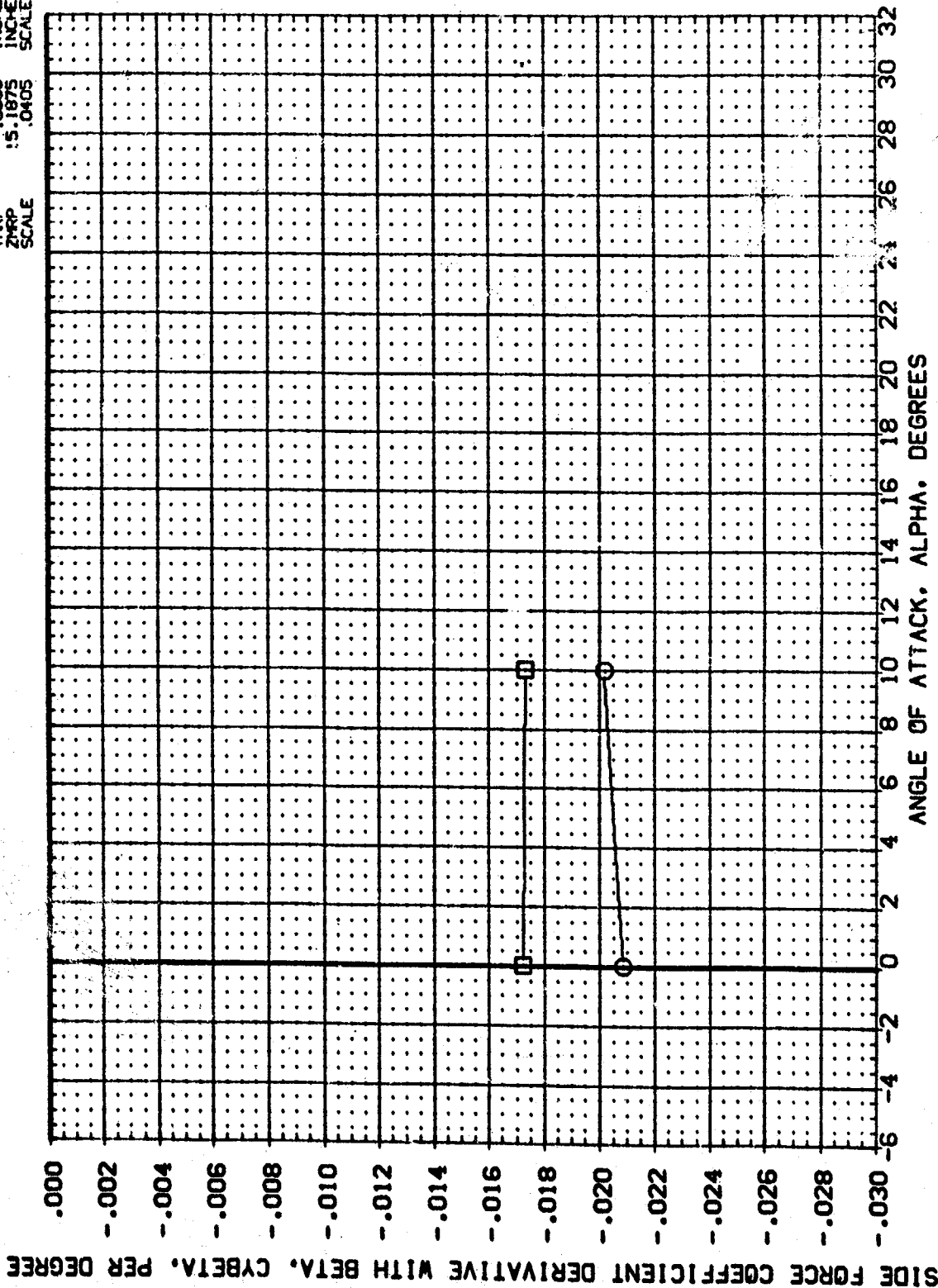


FIG 24 LATERAL - DIRECTIONAL CHARACTERISTICS CLUSTERS 5 NACELLES X0 = 950



DATA SET SYMBOL (ADV044) (ADV001)

CONFIGURATION DESCRIPTION  
 QAE2 B26C9 FB8 V116E26V8RSX10  
 QAE2 B26C9 FB8 V116E26V8RSX5

NACA/L ELEVON .730  
 BOFLAP .000 -12.000  
 SPOBRK .000 .000

REFERENCE INFORMATION  
 SREF 4.4119 SO.FT.  
 LREF 19.2298 INCHES  
 BREF 37.9359 INCHES  
 YMRP 43.5974 INCHES  
 ZMRP .0000 INCHES  
 SCALE 15.1875 INCHES  
 SCALE .0405

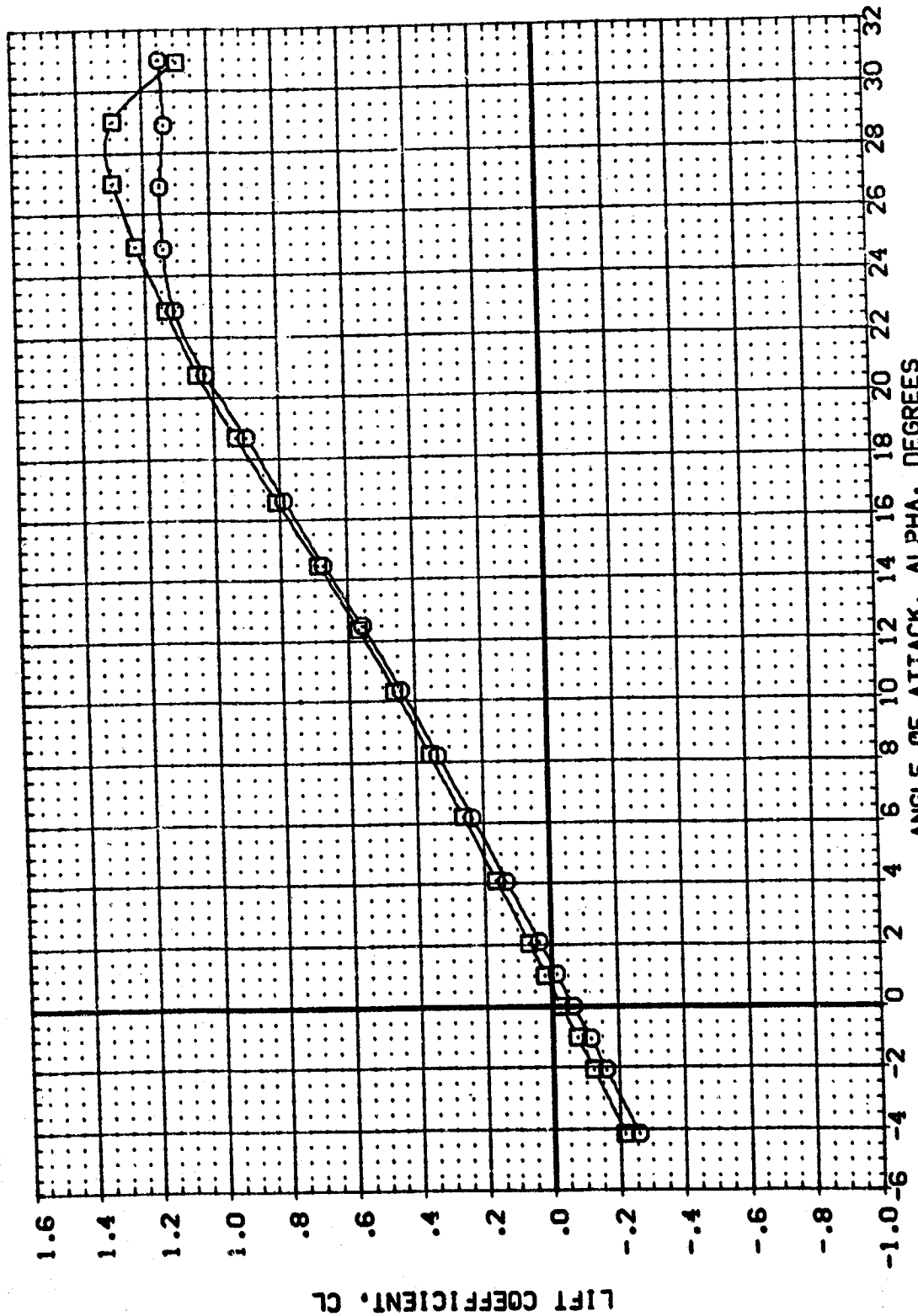


FIG 25 LONGITUDINAL CHARACTERISTICS  
 UNDERWING 6 ENGINES X0 = 1100  
 (A)MACH = .20  
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DATA SET SYMBOL: 0A62 826C9 F8J46V116E26V85X10  
 (ADM044) 0A62 826C9 F8 V116E26V85X9

MACVL .730  
 ELEVON .000  
 BOFLAP -12.000  
 SPDRK .000  
 SREF 4.4119 SQ.FT.  
 LREF 19.2259 INCHES  
 BRFF 37.9359 INCHES  
 XREF 43.5974 INCHES  
 YREF .0000 INCHES  
 ZREF 15.1875 INCHES  
 SCALE .0465

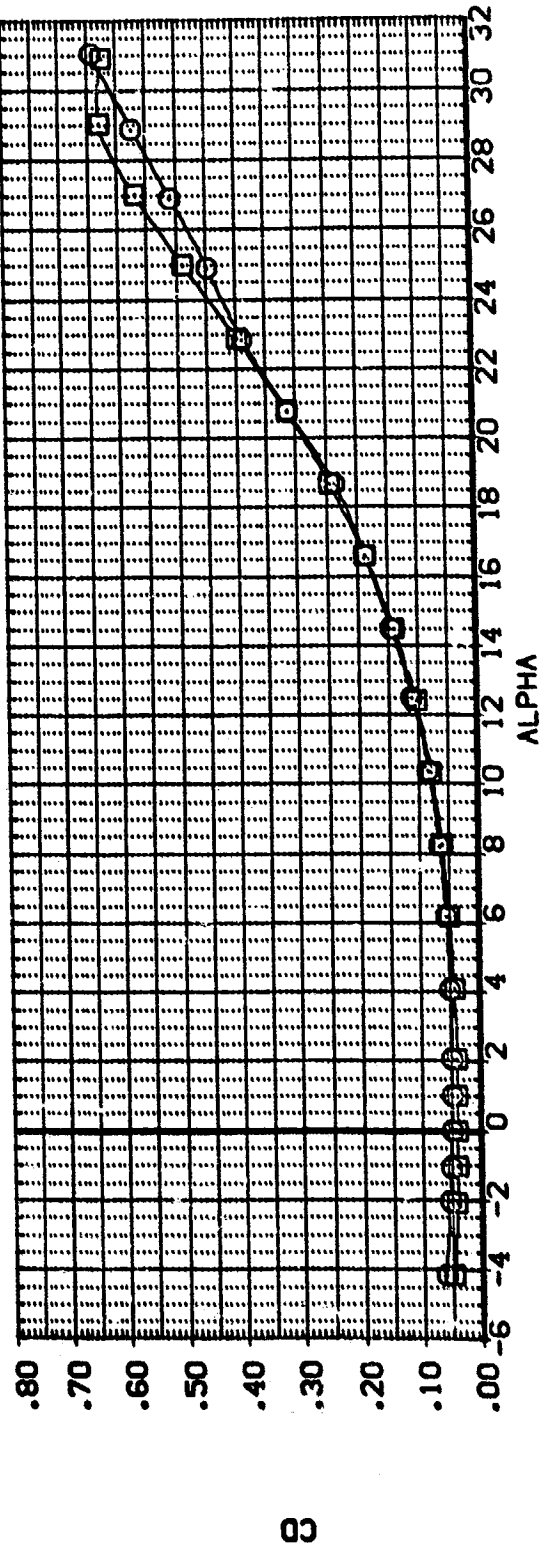
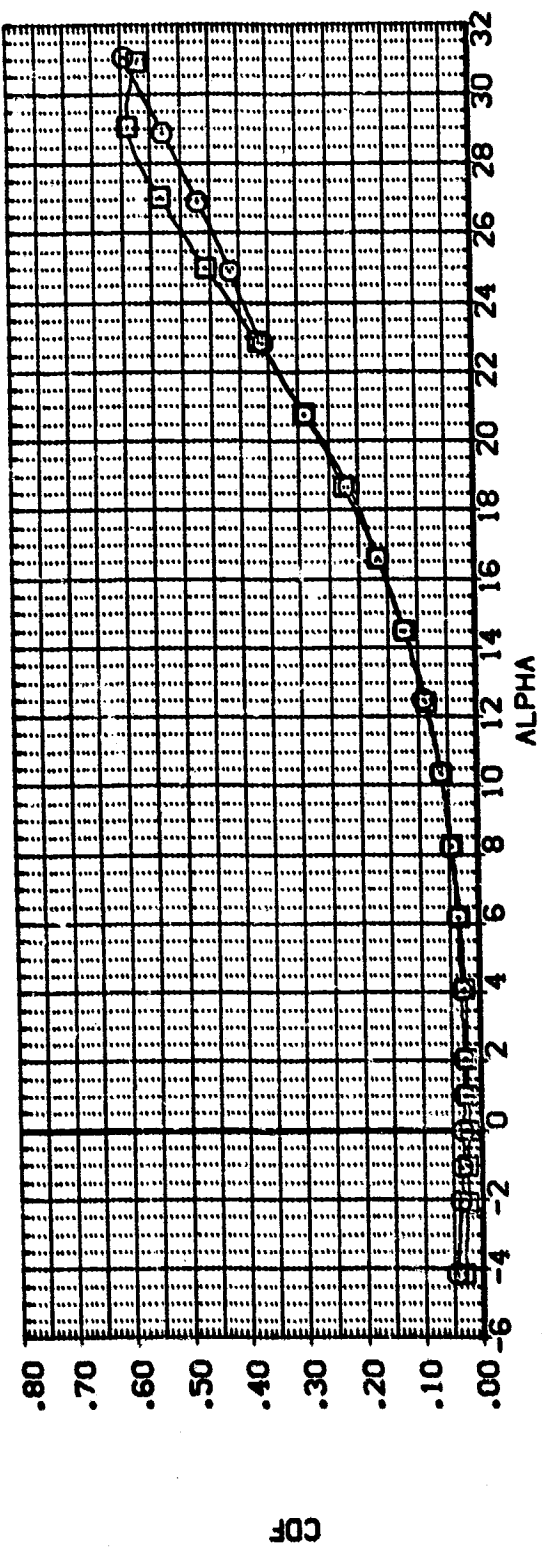


FIG 25 LONGITUDINAL CHARACTERISTICS  
 (A)MACH = .20  
 UNDERWING 6 ENGINES XO = 1100  
 PAGE 178

DATA SET SYMBL. CONFIGURATION DESCRIPTION  
 (ADM044) 0A62 B26C9 FB148V116E26V8PSX10  
 (ADM001) 0A62 B26C9 FB V116E26V8PSX9

NACVAL ELEVON BDFLAP SPOBRK  
 .730 .000 -12.000 .000  
 .000 -12.000 .000

REFERENCE INFORMATION  
 SREF 4.4119 SO.FT.  
 LREF 19.2299 INCHES  
 BREF 37.9359 INCHES  
 XMRP 43.5974 INCHES  
 YMRP .0000 INCHES  
 ZMRP 15.1875 INCHES  
 SCALE .0405

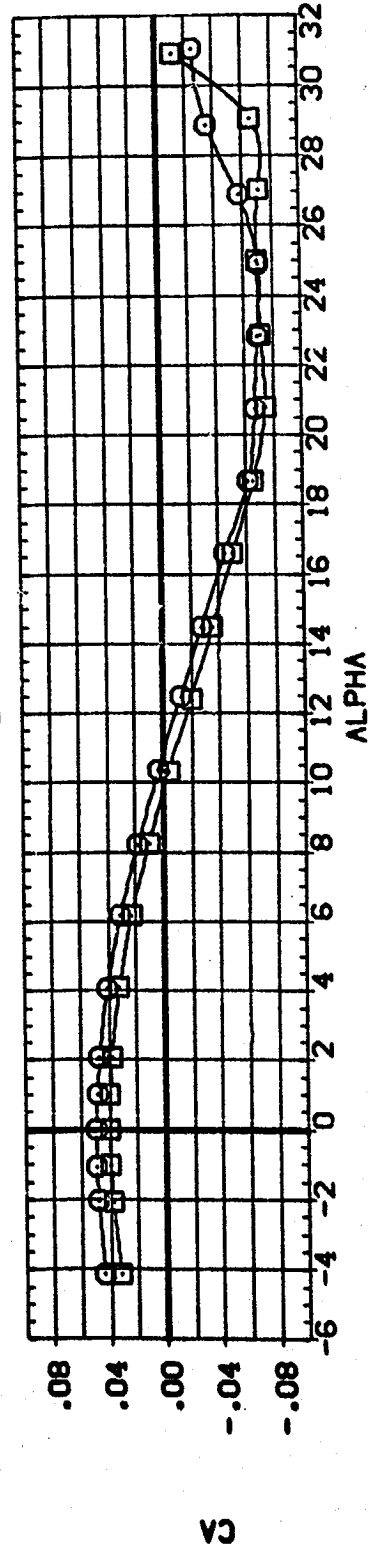
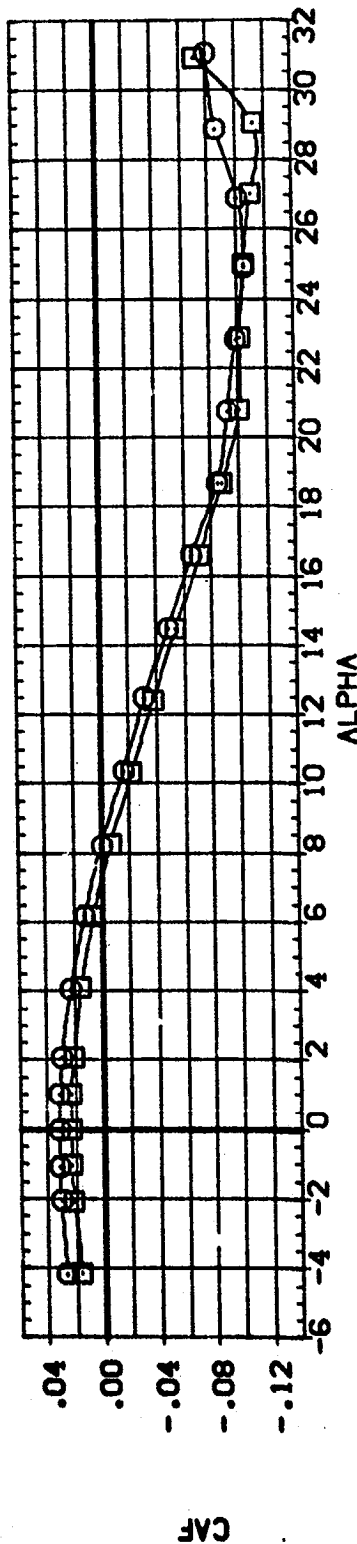
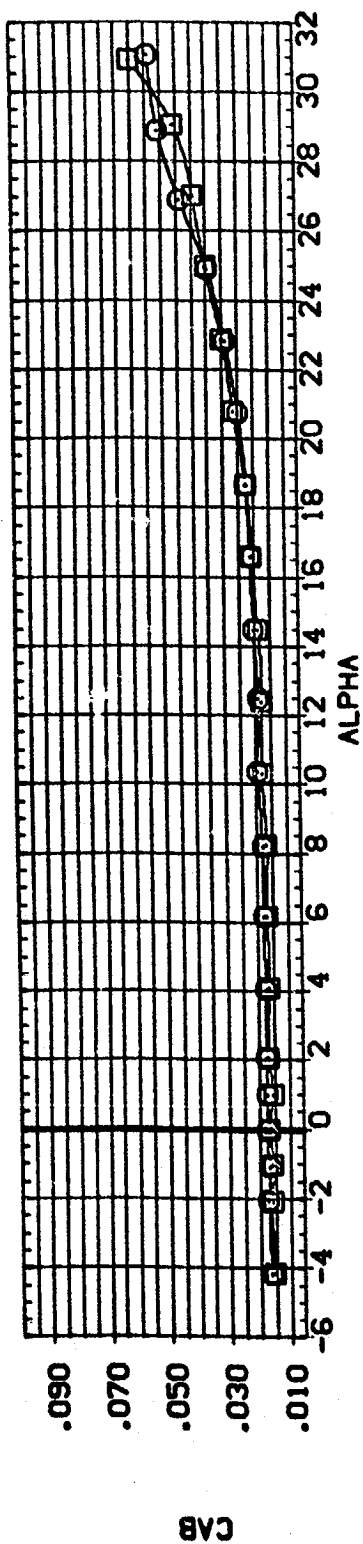


FIG 25 LONGITUDINAL CHARACTERISTICS

UNDERWING 6 ENGINES XO = 1100

(A)MACH = .20

DATA SET SYMBOL: 8  
 (ADW044)  
 (ADW001)

CONFIGURATION DESCRIPTION:  
 0462 826C9 FB448V116E26V8R5X10  
 0462 826C9 F8 V116E26V8R5X9

MAC/L: .730  
 ELEVON: .000  
 BDFLAP: .000  
 SFOBRK: .000  
 REFERENCE INFORMATION:  
 SREF: 4.1119 SO.FT.  
 LREF: 19.2299 INCHES  
 BREF: 37.9359 INCHES  
 YWRP: 43.5974 INCHES  
 ZWRP: 15.1000 INCHES  
 SCALE: 15.1875 INCHES  
 SCALE: .0405

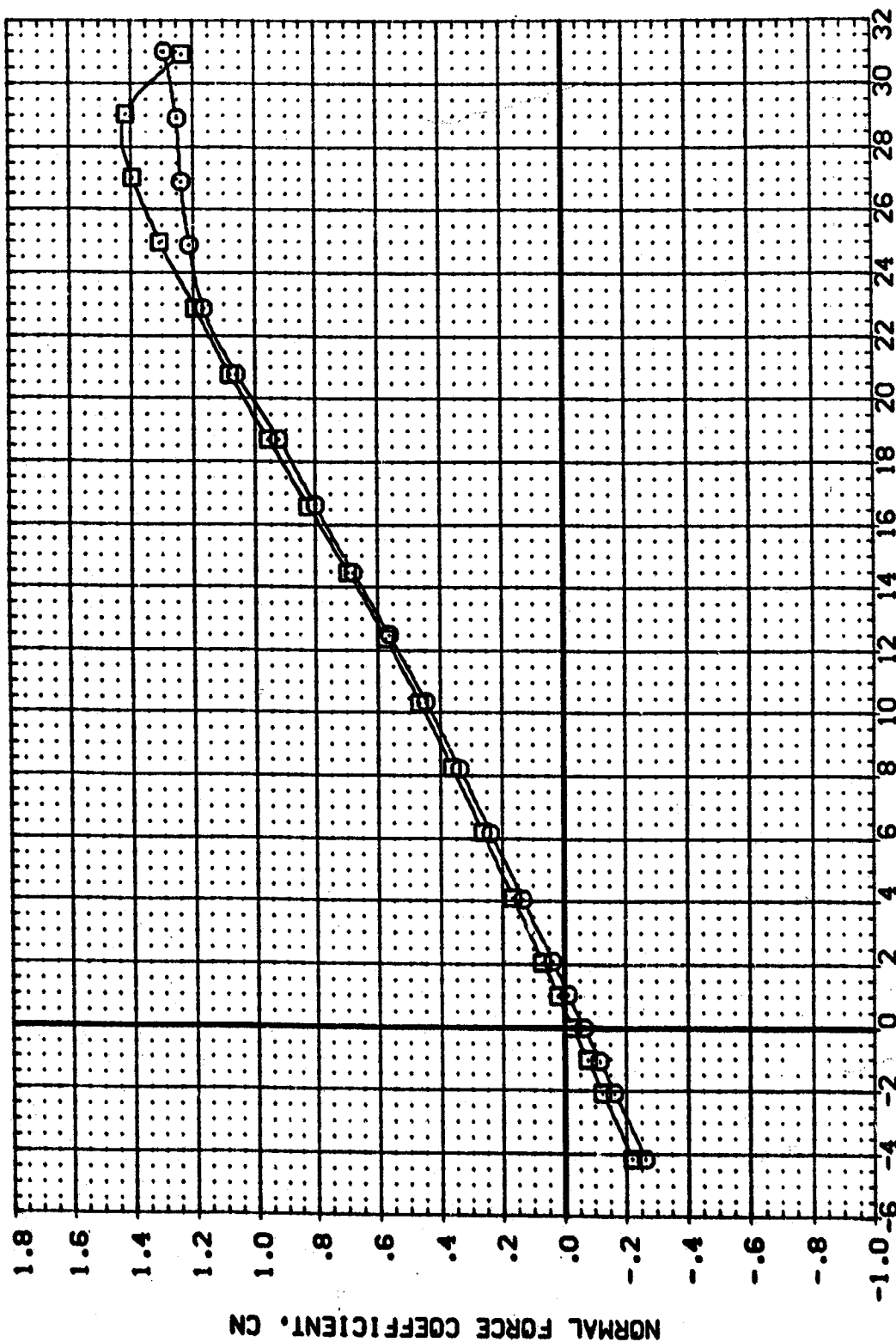


FIG 25 LONGITUDINAL CHARACTERISTICS UNDERWING 6 ENGINES X0 = 1100  
 (A)MACH = .20 PAGE 180

DATA SET SYMBOL: (ADV044) (ADV001)

CONFIGURATION DESCRIPTION: 0A52 826C9 FB 0A52 826C9 FB F8J48N115E26V85X10 F8 J116E26V85X9

MACX/L: .730

ELEVON: .000 .000 .000

BOFLAP: -12.000 -12.000

SPDRBK: .000 .000

REFERENCE INFORMATION:

SREF	4.4119	50. FT.
LREF	19.2298	INCHES
BREF	37.9359	INCHES
XTRP	43.5974	INCHES
YTRP	15.0000	INCHES
ZTRP	15.1875	INCHES
SCALE	.0405	SCALE

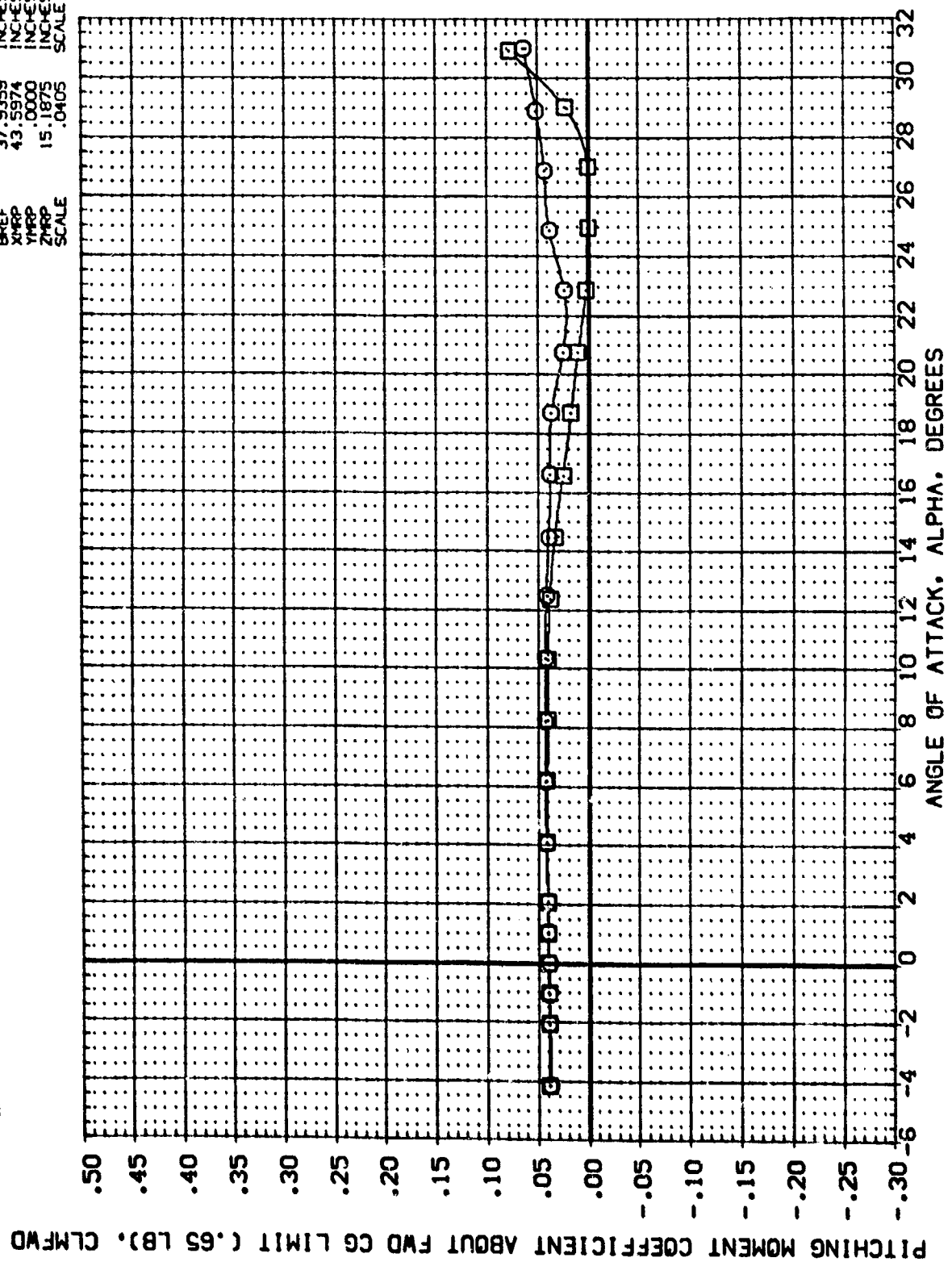


FIG 25 LONGITUDINAL CHARACTERISTICS UNDERWING 6 ENGINES XO = 1100

(AJMACH = .20) PAGE 181

DATA SET SYMBOL (ADV044)  (ADV001)

CONFIGURATION DESCRIPTION  
 QAS2 B26C9 F8 V116E26V8R5X10  
 QAS2 B26C9 F8 V116E26V8R5X9

NACA/L .730

ELEVON .000

BOFLAP -12.000

SPOBRK .000

REFERENCE INFORMATION  
 SREF 4.4119 50. FT.  
 LREF 19.2299 INCHES  
 BREF 37.5359 INCHES  
 XMRP 43.5974 INCHES  
 YMRP .0000 INCHES  
 ZMRP 15.1875 INCHES  
 SCALE .0405

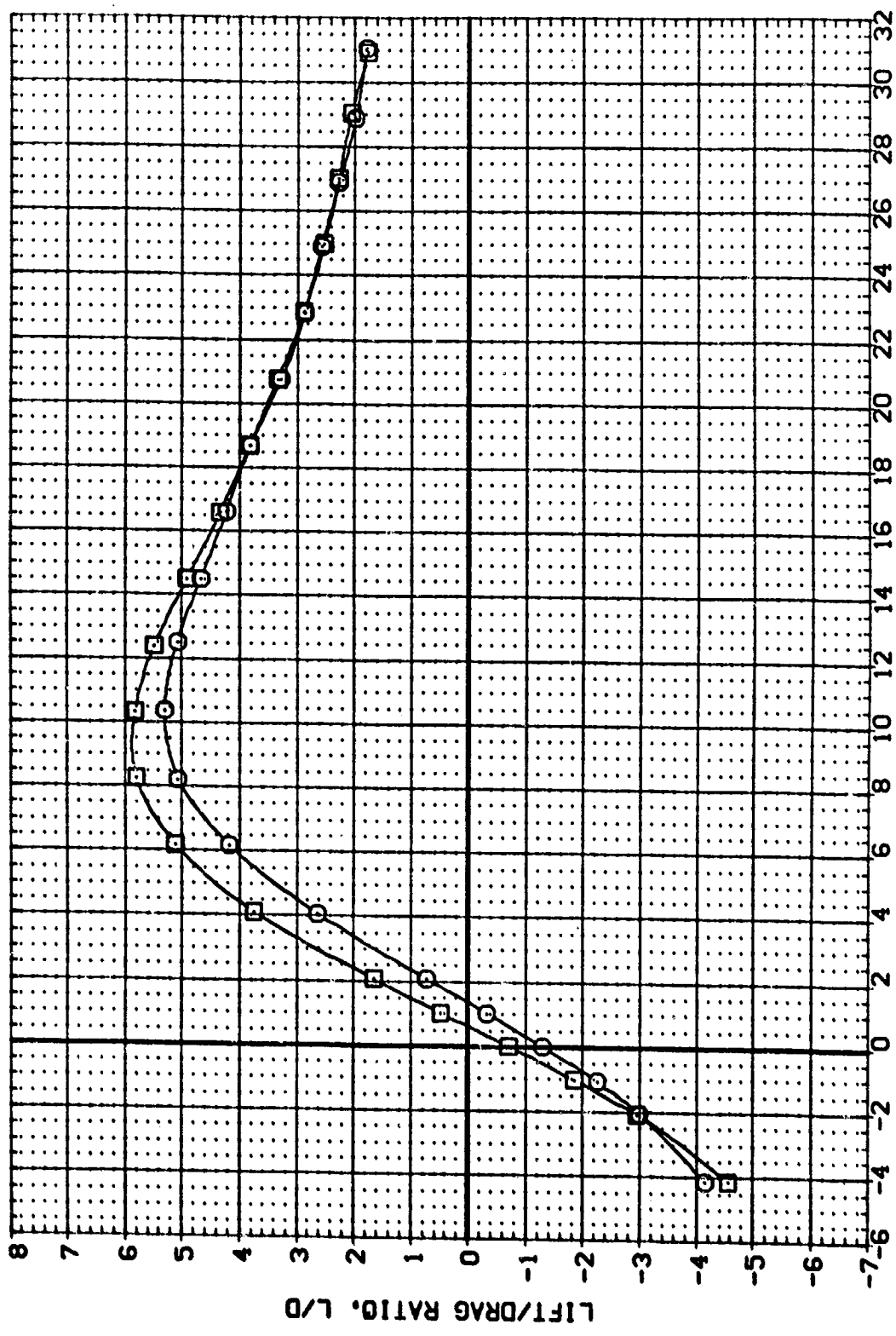


FIG 25 LONGITUDINAL CHARACTERISTICS UNDERWING 6 ENGINES  $X_0 = 1100$   
 (A)MACH = .20

ANGLE OF ATTACK, ALPHA, DEGREES

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DATA SET SYMBOL (ADW044)  
CONFIGURATION (ADW001)  
DESCRIPTION FB  
FB J48V11GE26V85X10  
V11GE26V85X9

NACA/L ELEVON BOFLAP SPOBRK  
.730 .000 -12.000 .000  
.000 -12.000 .000

REFERENCE INFORMATION  
SREF 4.4119 SO.FT.  
LREF 19.2258 INCHES  
UREF 37.9359 INCHES  
XMRP 43.5974 INCHES  
YMRP .0000 INCHES  
ZMRP 15.1875 INCHES  
SCALE .0405 SCALE

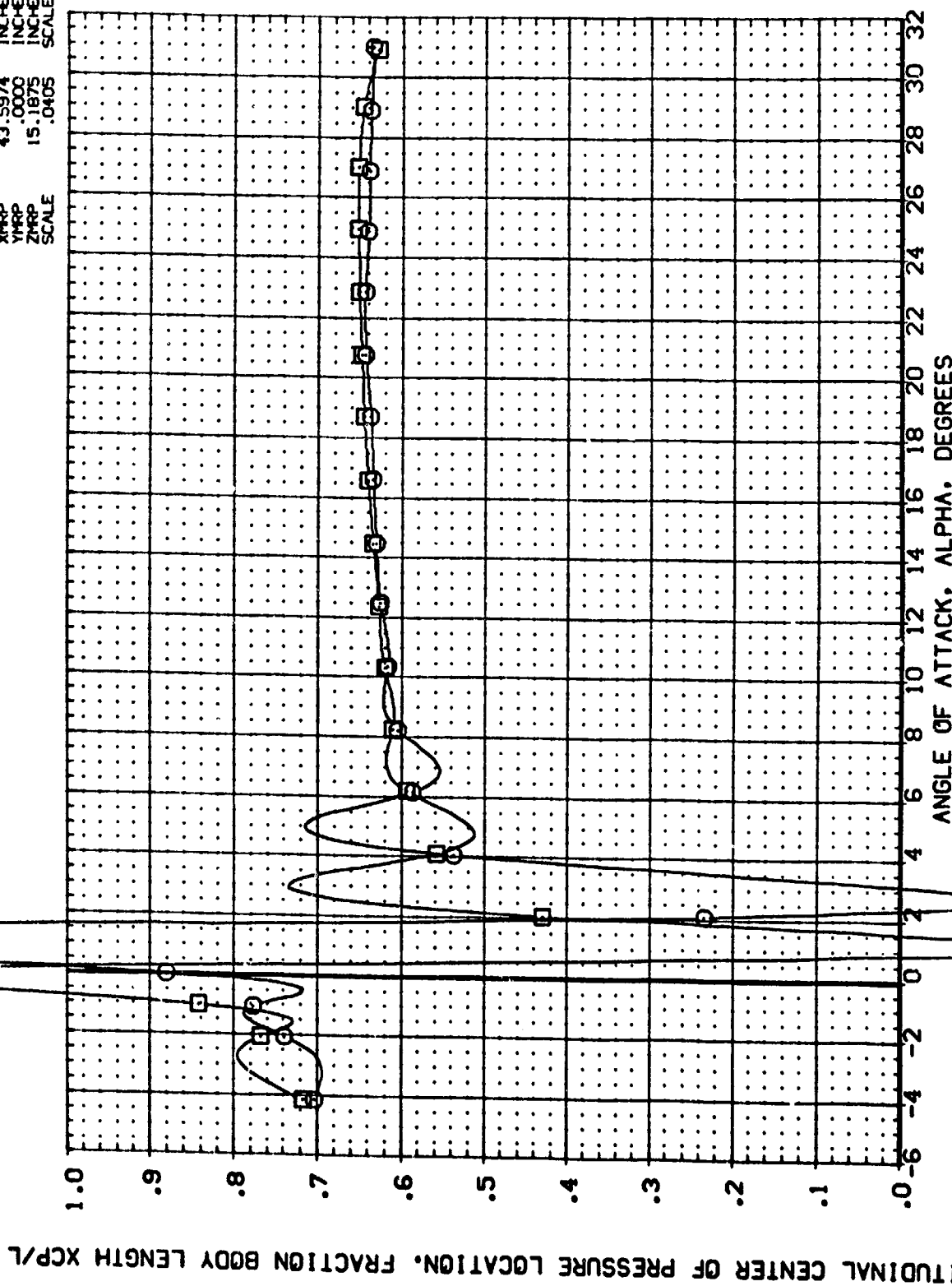


FIG 25 LONGITUDINAL CHARACTERISTICS UNDERWING 6 ENGINES X0 = 1100

(A)MACH = .20

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		MAC/L		ELEVON		BDFLAP		SPDBRK		REFERENCE INFORMATION	
(ADVO44)	0A62	B26C9	F8J48V116E26V8RSX10	.730	.000	-12.000	.000	.000	SREF	4.4119	SO.FT.		
(ADVO01)	0A62	B26C9	F8 V116E26V8RSX19		.000	-12.000		.000	LREF	19.2299	INCHES		
									BREF	37.9359	INCHES		
									XMRP	43.5974	INCHES		
									YMRP	15.1875	INCHES		
									ZMRP	.0405	SCALE		

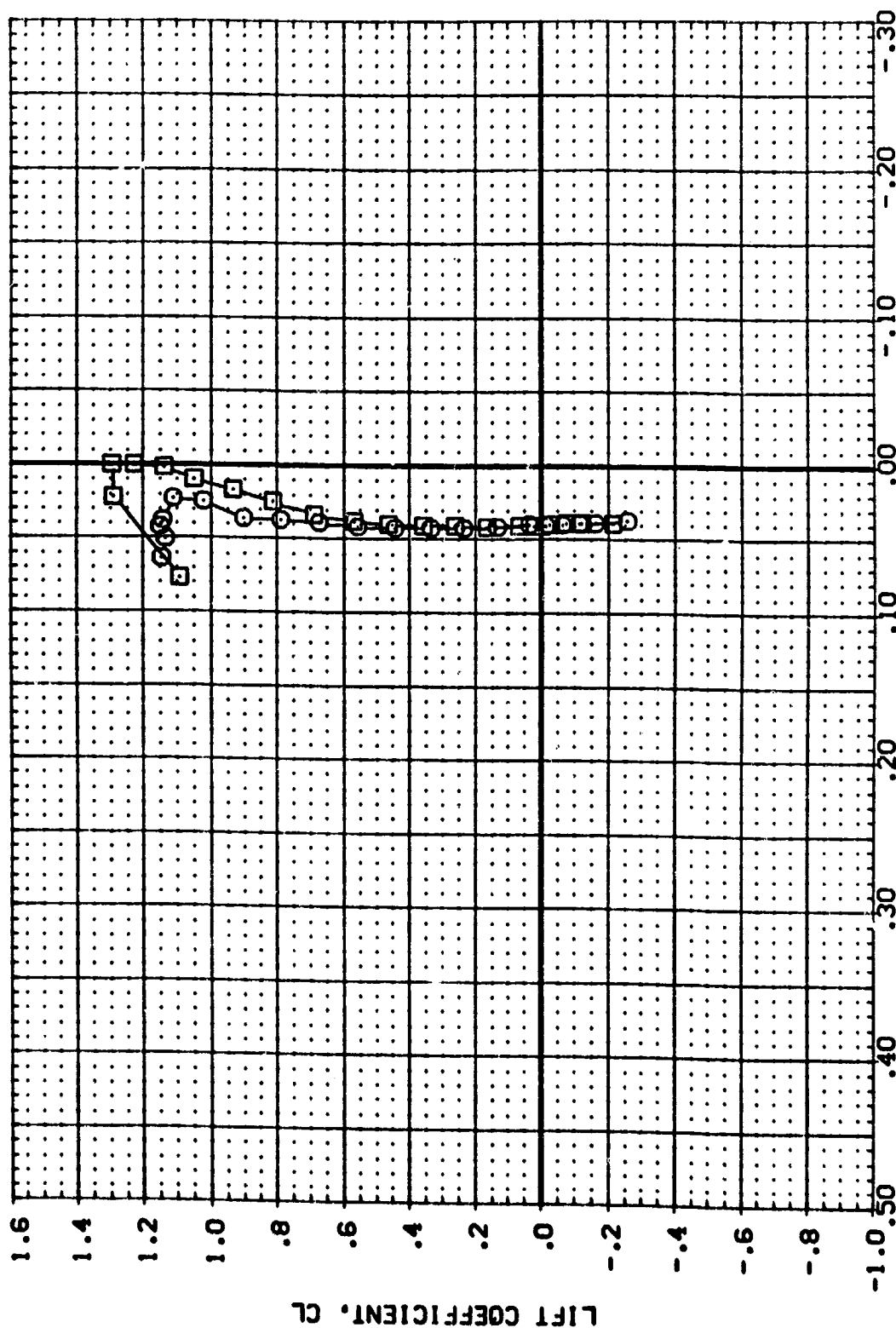


FIG 25 LONGITUDINAL CHARACTERISTICS  
 (A)MACH = .20 UNDERWING 6 ENGINES XO = 1100  
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DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (ADM044) 0A62 826C9 FB/48V/16E 2SV8RSX10  
 (ADM001) 0A62 826C9 FB V11CE2SV8RSX9

NACA/ELEVON BOFLAP SPOBRK  
 .730 .000 -12.000 .000

REFERENCE INFORMATION  
 SREF 4.4119 50. FT.  
 UREF 19.2298 INCHES  
 BREF 37.5359 INCHES  
 XMRP 43.5974 INCHES  
 YMRP .0000 INCHES  
 ZMRP 15.1875 INCHES  
 SCALE .0405 SCALE

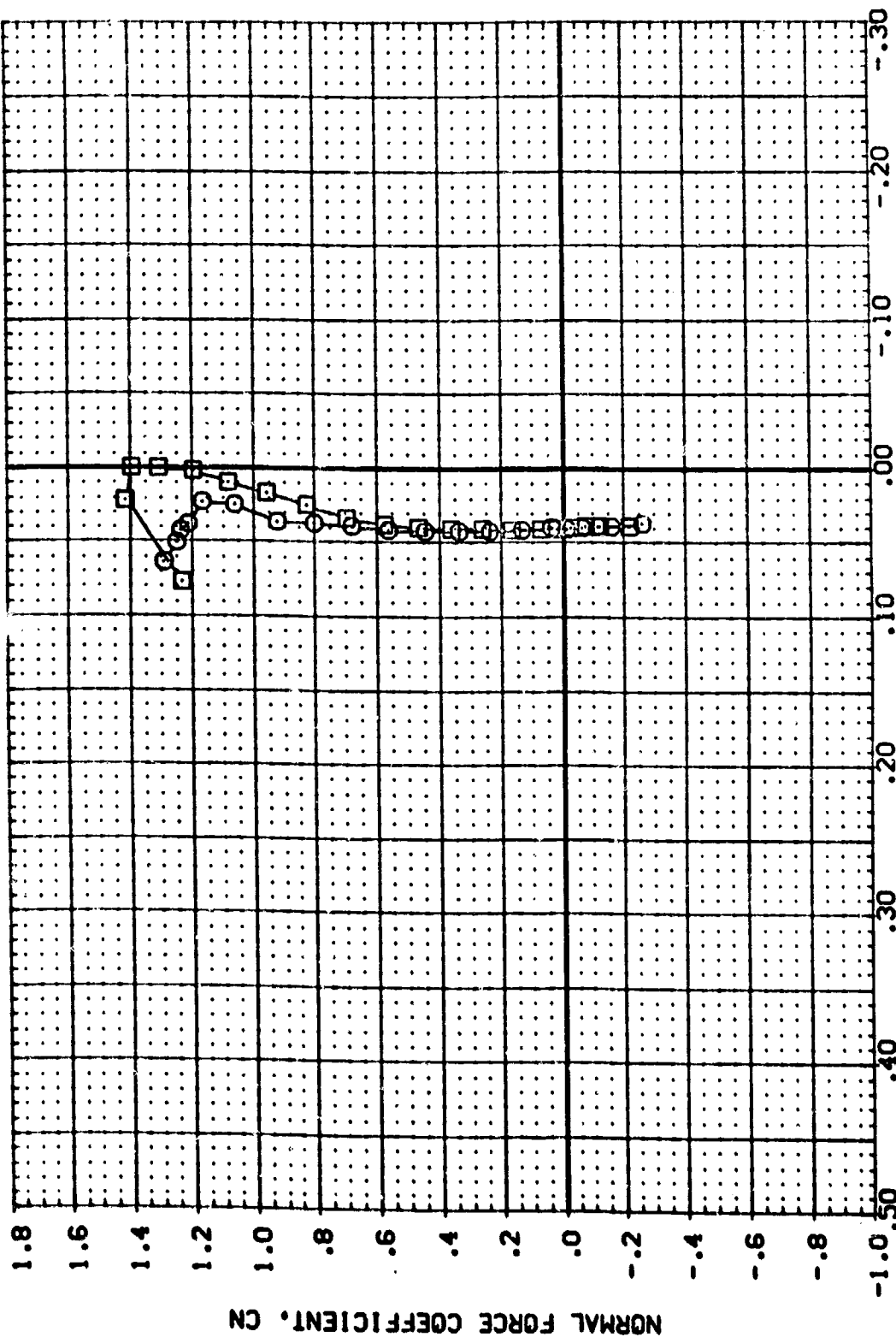


FIG 25 LONGITUDINAL CHARACTERISTICS  
 (A)MACH = .20 UNDERWING 6 ENGINES XC = 1100  
 PITCHING MOMENT COEFFICIENT ABOUT FWD CG LIMIT (.65 LB). CLMFWD  
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DATA SET SYMBOL		CONFIGURATION DESCRIPTION		MACH/L		ELEVON		BOFLAP		SPOBRK		REFERENCE INFORMATION	
(ADVO44)	0A62	B26C9	F8J48V11EE26VBR5X10	.730	.000	-12.000	.000	.000	SREF	4.4119	50. FT.		
(ADVO01)	0A62	B26C9	F8 V116E26VBR5A5		.000	-12.000	.000	.000	LREF	19.2259	INCHES		
									BREF	37.9359	INCHES		
									XMRP	43.5974	INCHES		
									YMRP	.0000	INCHES		
									ZMRP	15.1875	INCHES		
									SCALE	.0405	SCALE		

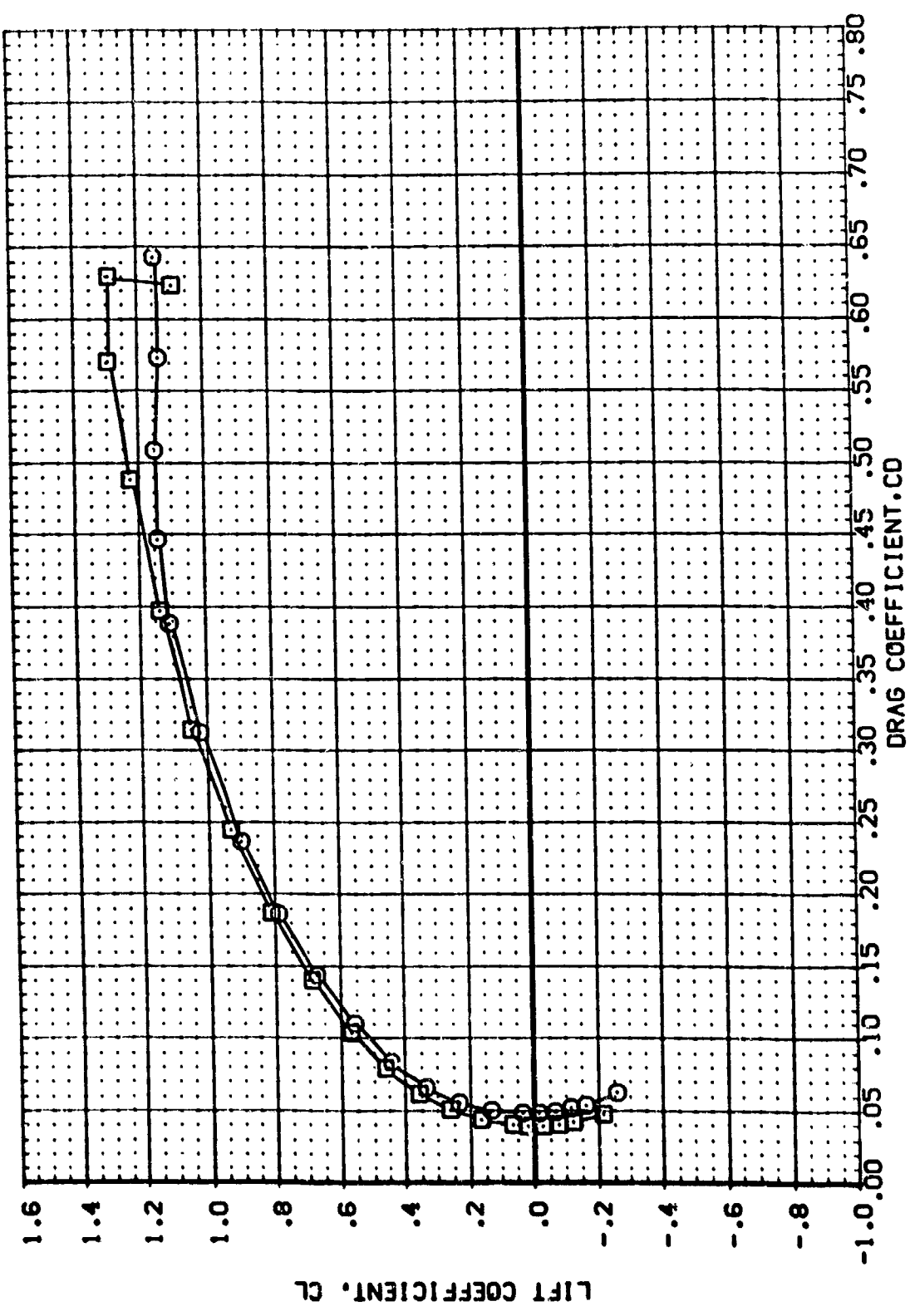


FIG 25 LONGITUDINAL CHARACTERISTICS UNDERWING 6 ENGINES XO = 1100  
 (A)MACH = .20 PAGE 186

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (CDV044) 0462 B26C9 FBW 48V116E26V85X10  
 (CDV001) 0462 B26C9 FBW 48V116E26V85X9

NACA/L ELEVON 80FLAP SPOBRK  
 .730 .000 -12.000 .000

REFERENCE INFORMATION  
 SREF 4.4119 50. FT  
 LREF 19.2299 INCHES  
 BREF 37.9359 INCHES  
 XMRP 44.3813 INCHES  
 YMRP .0000 INCHES  
 ZMRP 15.1875 INCHES  
 SCALE .0405

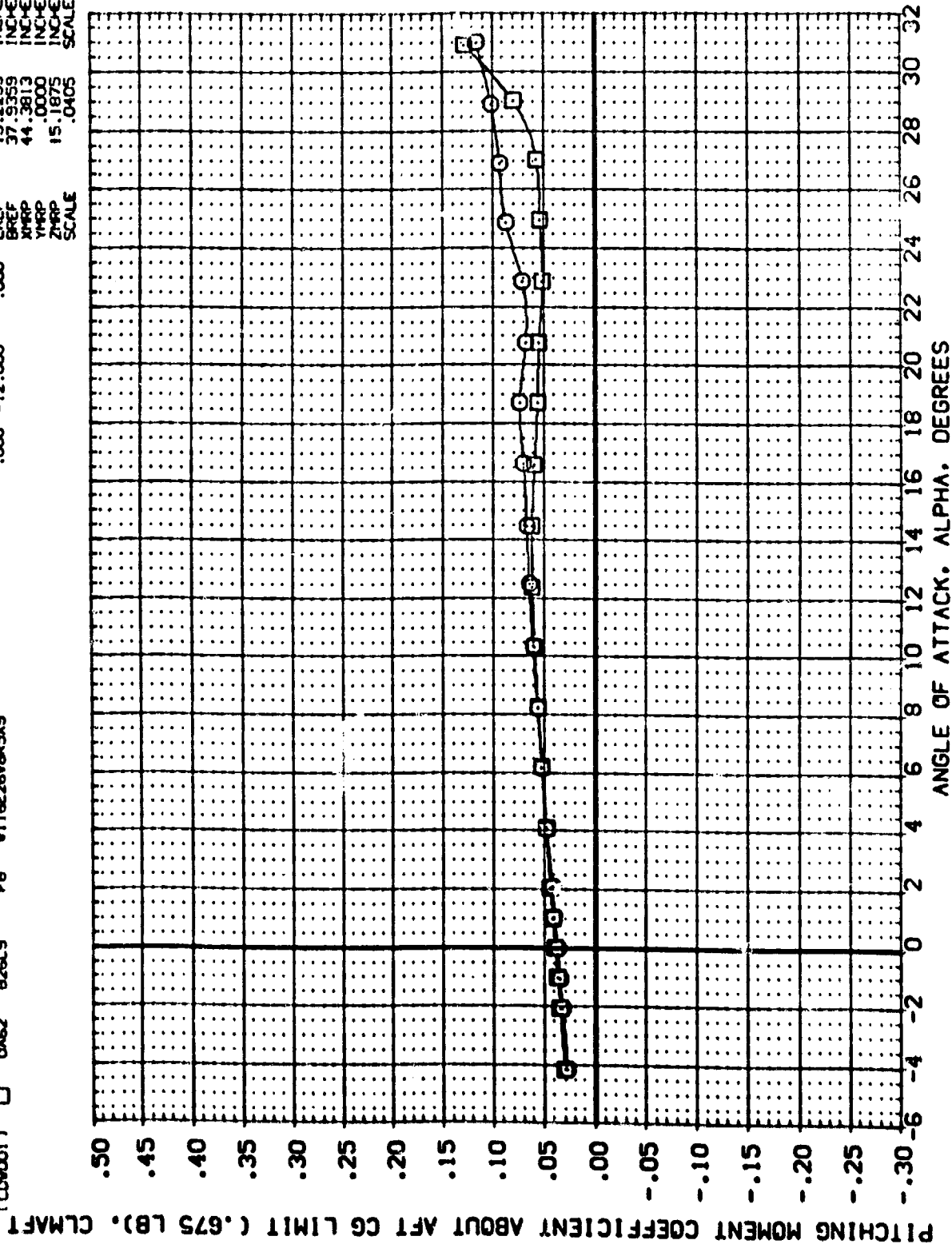


FIG 25 LONGITUDINAL CHARACTERISTICS UNDERWING 6 ENGINES X0 = 1100  
 (A)MACH = .20 PAGE 187

DATA SET SYMBOL: (RDV045)  
 (RDV046)  
 (RDV002)  
 (RDV004)

CONFIGURATION DESCRIPTION:  
 B26C9 FB148V116E26V8R5X10  
 B26C9 FB148V116E26V8R5X10  
 B26C9 FB148V116E26V8R5X9  
 B26C9 FB148V116E26V8R5X9

ALPHA: .000  
 10.000  
 10.000

NACA/L: .730  
 .730

SPOBRK: .000  
 .000  
 .000

RUDER: .000  
 .000  
 .000

REFERENCE INFORMATION:  
 SREF: 4.419 SO.FT.  
 LREF: 19.2299 INCHES  
 BREF: 37.9359 INCHES  
 XPRP: 43.5974 INCHES  
 YPRP: .0000 INCHES  
 ZPRP: 15.1875 INCHES  
 SCALE: .0405

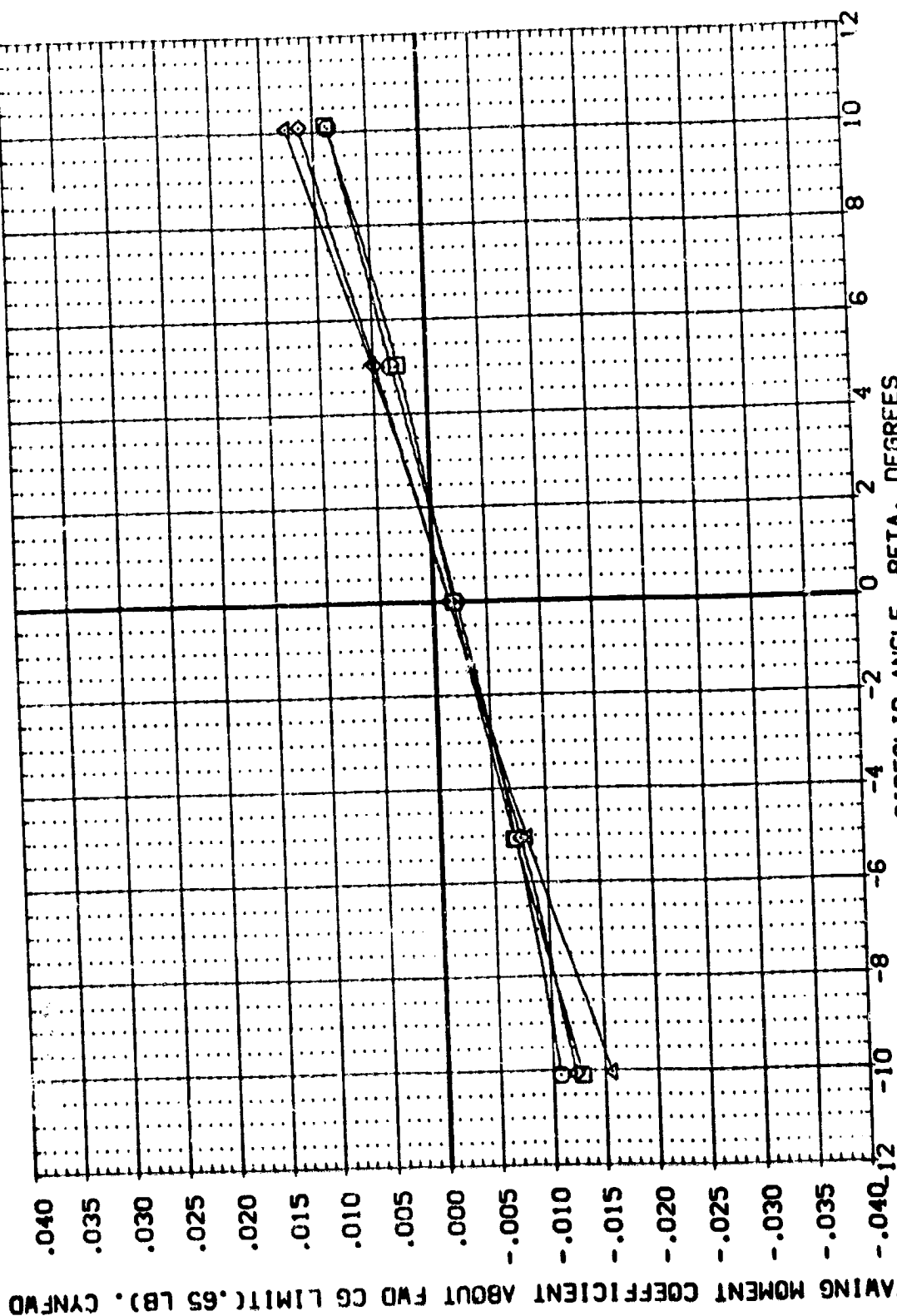
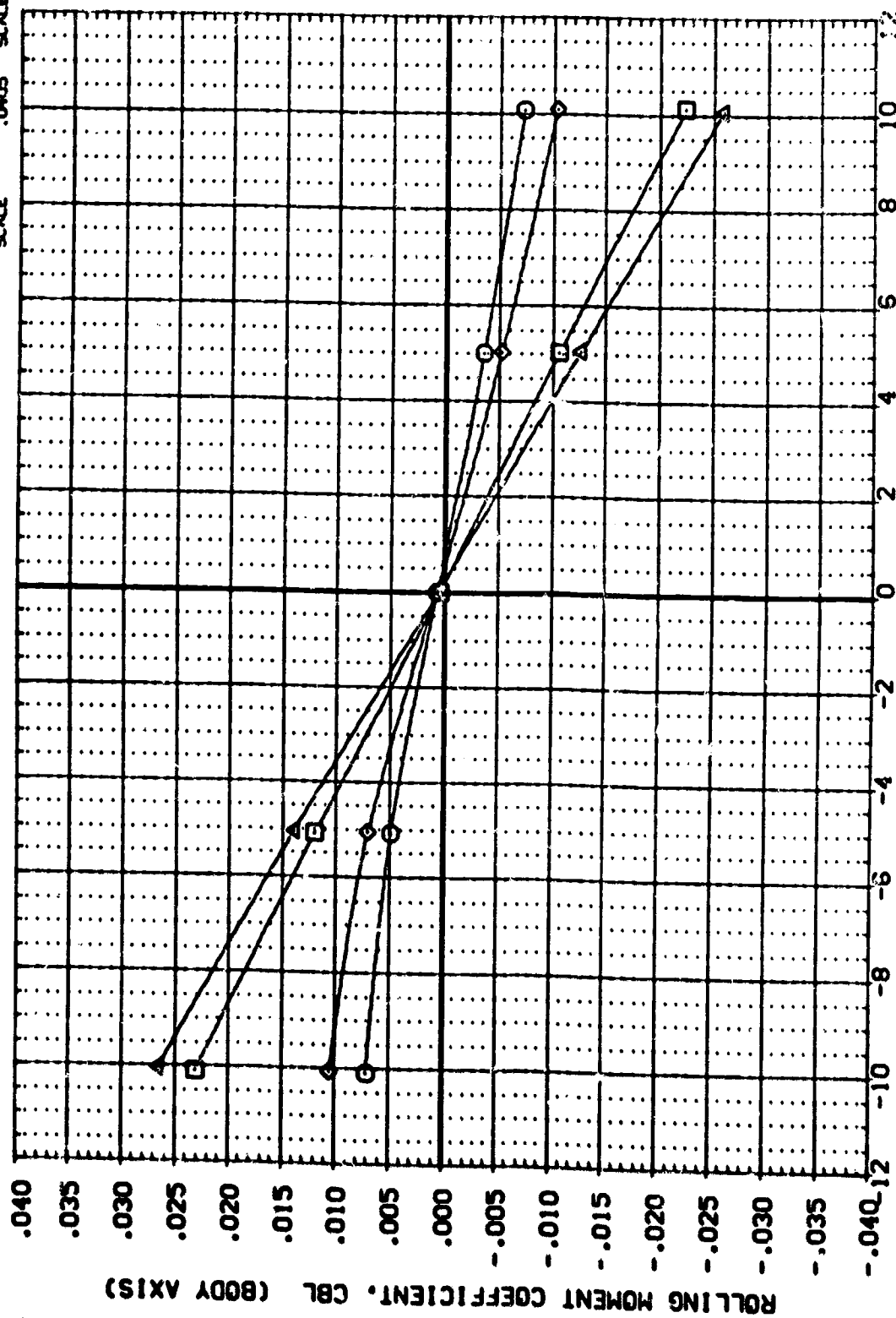


FIG 26 LATERAL - DIRECTIONAL CHARACTERISTICS UNDERWING 6 ENGINES XO = 1100  
 (A)MACH = .20

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (RDV045) DAS2 B26C9 FBJ48W116E26V85X10  
 (RDV046) DAS2 B26C9 FBJ48W116E26V85X10  
 (RDV047) DAS2 B26C9 FB J116E26V85X9  
 (RDV048) DAS2 B26C9 FB J116E26V85X9

ALPHA MACUL SPOBK RUDDER  
 .000 .730 .000 .000  
 10.000 .730 .000 .000  
 10.000 .000 .000 .000

REFERENCE INFORMATION  
 SREF 4.4119 50.FT.  
 LREF 19.2299 INCHES  
 MREF 37.9359 INCHES  
 YMRP 43.5974 INCHES  
 ZMRP .0000 INCHES  
 SCALE 15.1875 INCHES  
 .0405



SIDESLIP ANGLE, BETA, DEGREES

FIG 26 LATERAL - DIPECTIONAL CHARACTERISTICS UNDERWING 6 ENGINES  $X_0 = 1100$

(A)MACH = .20

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(R0V045)	OA62	B26C9	F8J48V116E26VBR5X10
(R0V046)	OA62	B26C9	F8J48V116E26VBR5X10
(R0V002)	OA62	B26C9	F8 V116E26VBR5X9
(R0V004)	OA62	B26C9	F8 V116E26VBR5X9

REFERENCE INFORMATION

	SO. FT.	INCHES
SREF	4.4119	INCHES
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	15.1875	INCHES
SCALE	.0405	SCALE

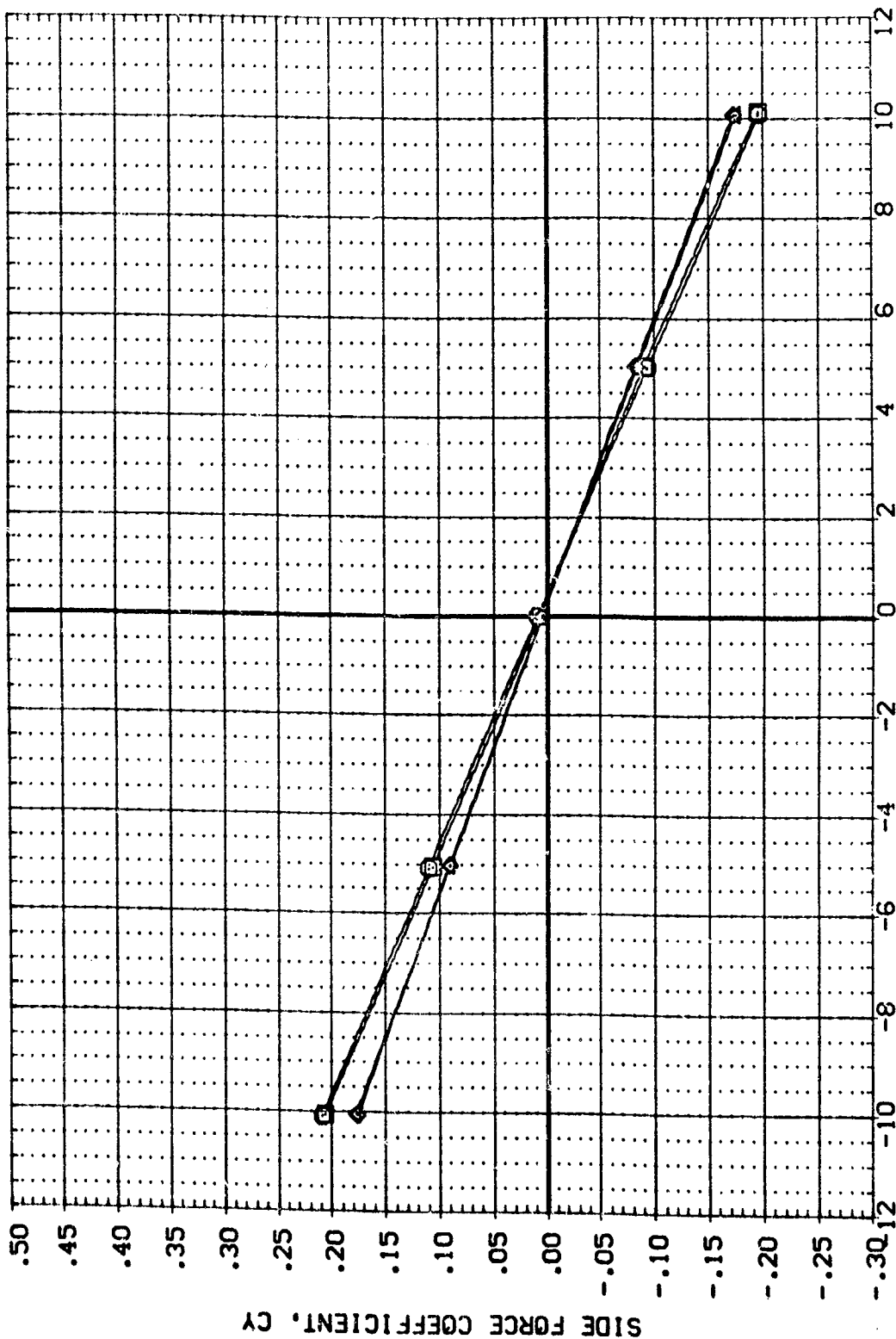


FIG 26 LATERAL - DIRECTIONAL CHARACTERISTICS UNDERWING 6 ENGINES X0 = 1100

(A)MACH = .20

DATA SET SYMBOL (EDV045) (EDV002)

CONFIGURATION DESCRIPTION  
 DA62 B26C9  
 FB J48V116E26VRSX10  
 FB V116E26VRSX5

NAI/X/L .730

ELEVON .000  
 .000

80FLAP -12.000  
 -12.000

SPODBK .000  
 .000

REFERENCE INFORMATION  
 SREF 4.4119 SQ.FT.  
 LREF 19.2299 INCHES  
 BREF 37.9359 INCHES  
 XMRP 43.5374 INCHES  
 YMRP .0000 INCHES  
 ZMRP 15.1875 INCHES  
 SCALE .0405

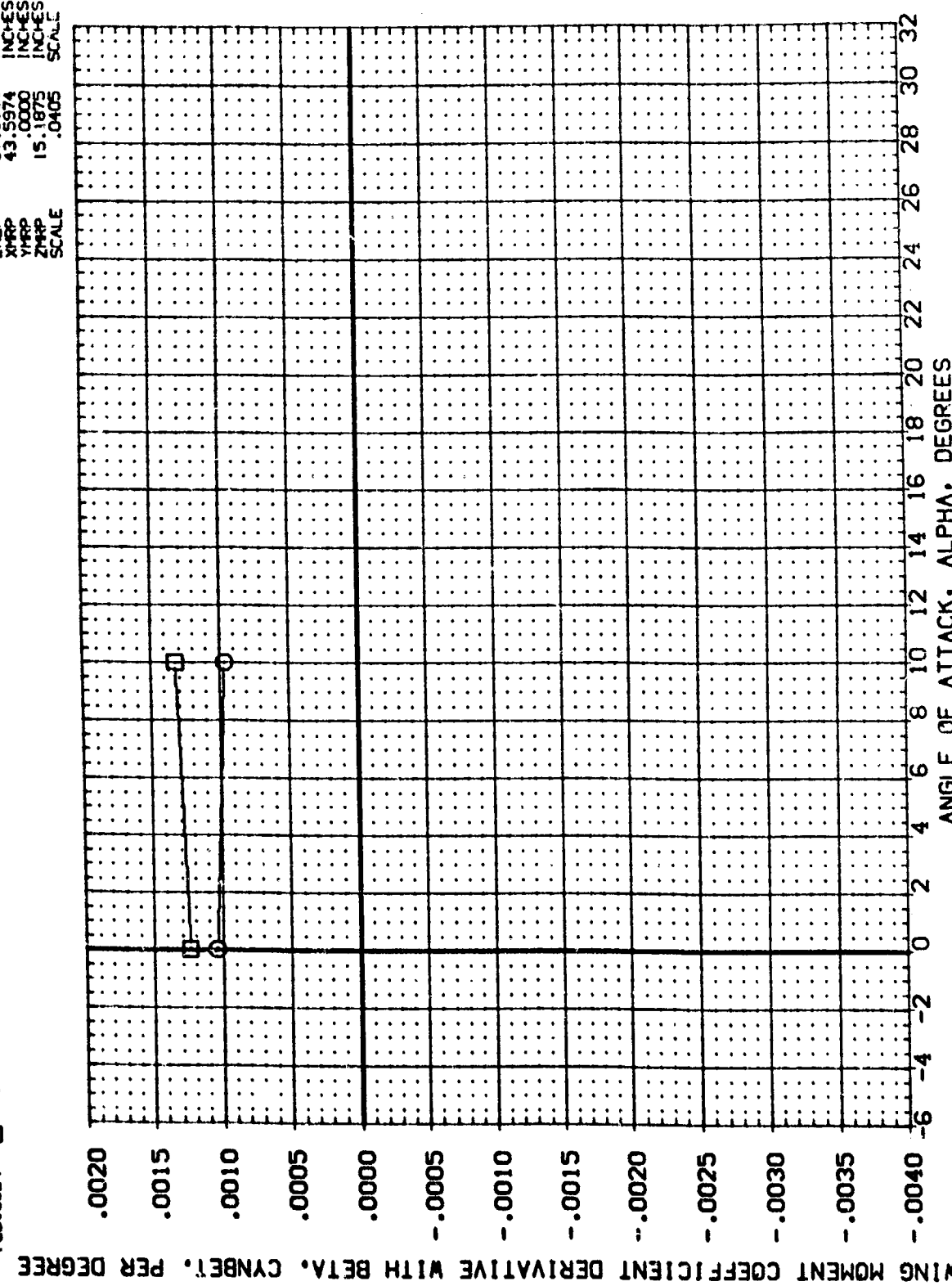


FIG 26 LATERAL - DIRECTIONAL CHARACTERISTICS UNDERWING 6 ENGINES X0 = 1100

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DATA SET SYMBOL  
(EDV045)  
(EDV002)

CONFIGURATION DESCRIPTION  
DA62 B26C9 FB 1/116226V85X10  
DA62 B26C9 FB 1/116226V85X9

NACVAL .730  
ELEVON .000  
BOFLAP -12.000

REFERENCE INFORMATION  
SREF 4.4119 SO.FT.  
LREF 19.2299 INCHES  
BREF 37.9359 INCHES  
XMRP 43.5974 INCHES  
YMRP 15.0000 INCHES  
ZMRP 15.1875 INCHES  
SCALE .0405

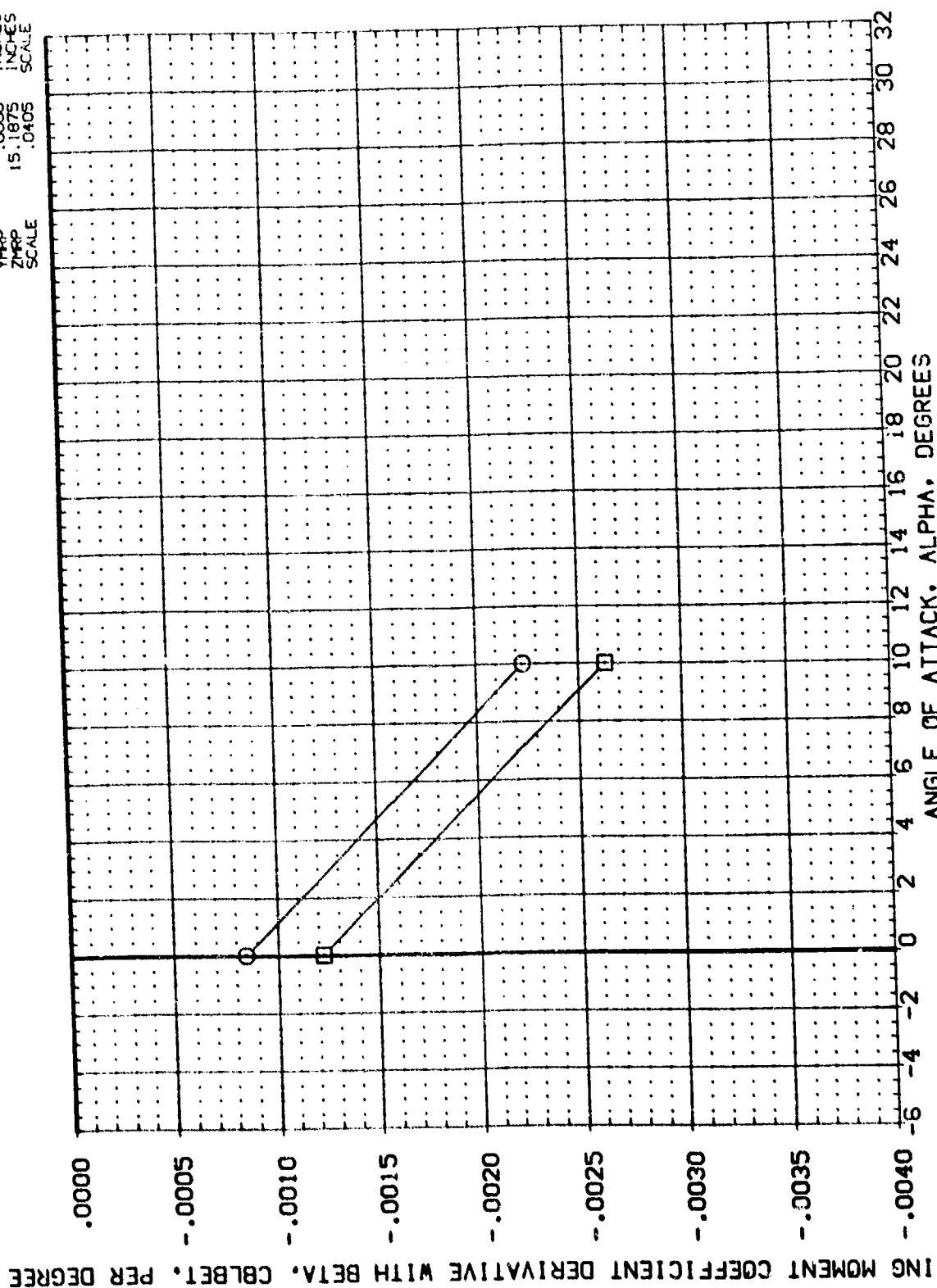


FIG 26 LATERAL - DIRECTIONAL CHARACTERISTICS UNDERWING 6 ENGINES X0 = 1100  
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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NACAL	ELEVON	BDFLAP	SPOBRK	REFERENCE INFORMATION
(EDV045)	0A62 B26C9	.730	.000	-12.000	.00	SREF 4.4119 50 FT.
(EDV002)	0A62 B26C9		.000	-12.000	.00	LREF 19.2299 INCHES
						BREF 37.9359 INCHES
						XMRP 43.5974 INCHES
						YMRP .0000 INCHES
						ZMRP 15.1875 INCHES
						SCALE .0405

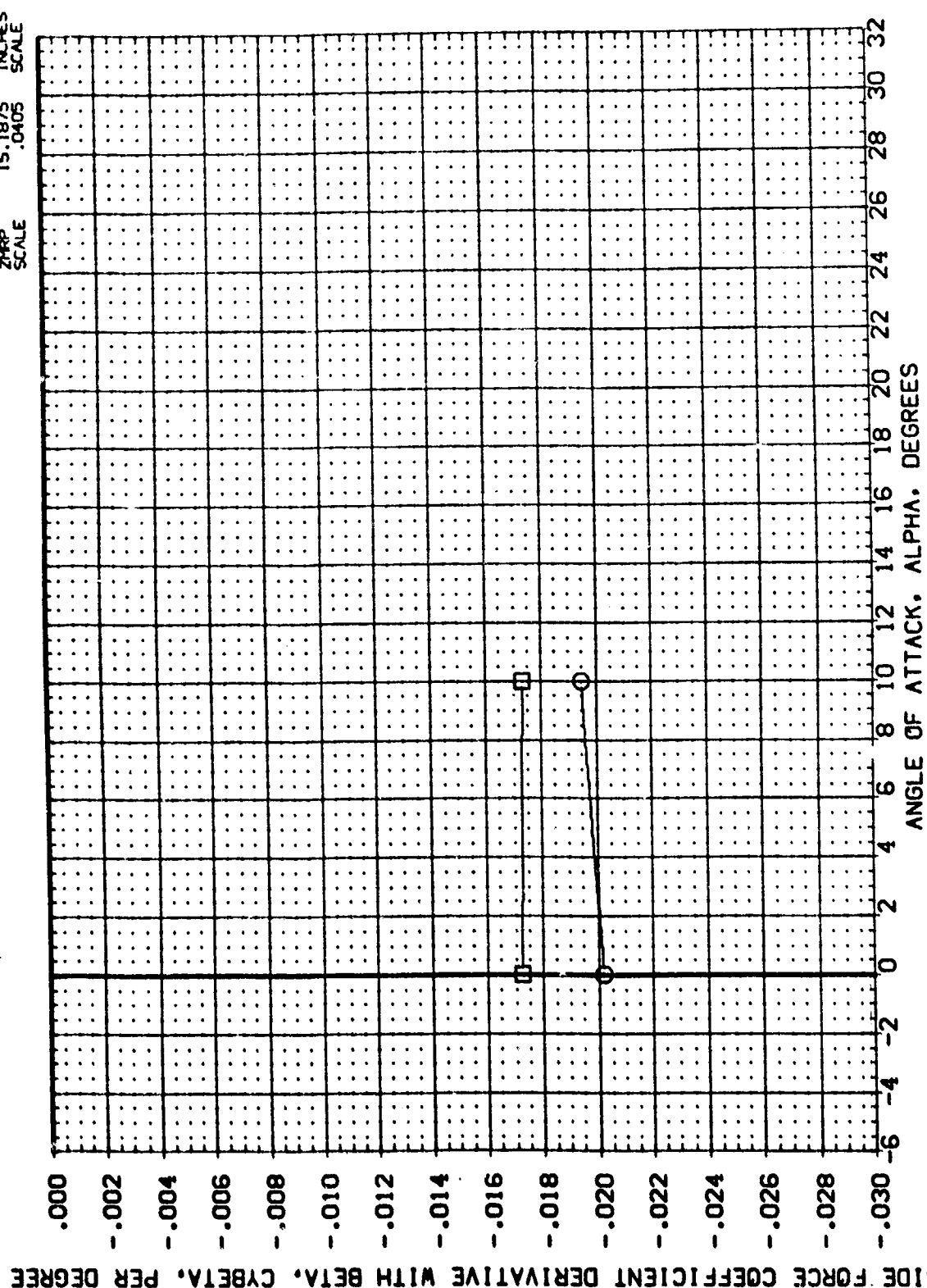


FIG 26 LATERAL - DIRECTIONAL CHARACTERISTICS UNDERWING 6 ENGINES X0 = 1100

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		REFERENCE INFORMATION	
(ADW047)	0A62	B26C9	F8J5V111E26V8R5X10	SREF	4.4119
(ACV001)	0A62	B26C9	F8 V11E26V8R5X9	LREF	19.2299
				BREF	37.9359
				XMRP	43.5974
				YMRP	.0000
				ZMRP	15.1875
				SCALE	.0405
MAC/V		ELEVON	BOLAP	SPOBRK	SO.FT.
.730		.000	-12.000	.000	INCHES
		.000	-12.000	.000	INCHES

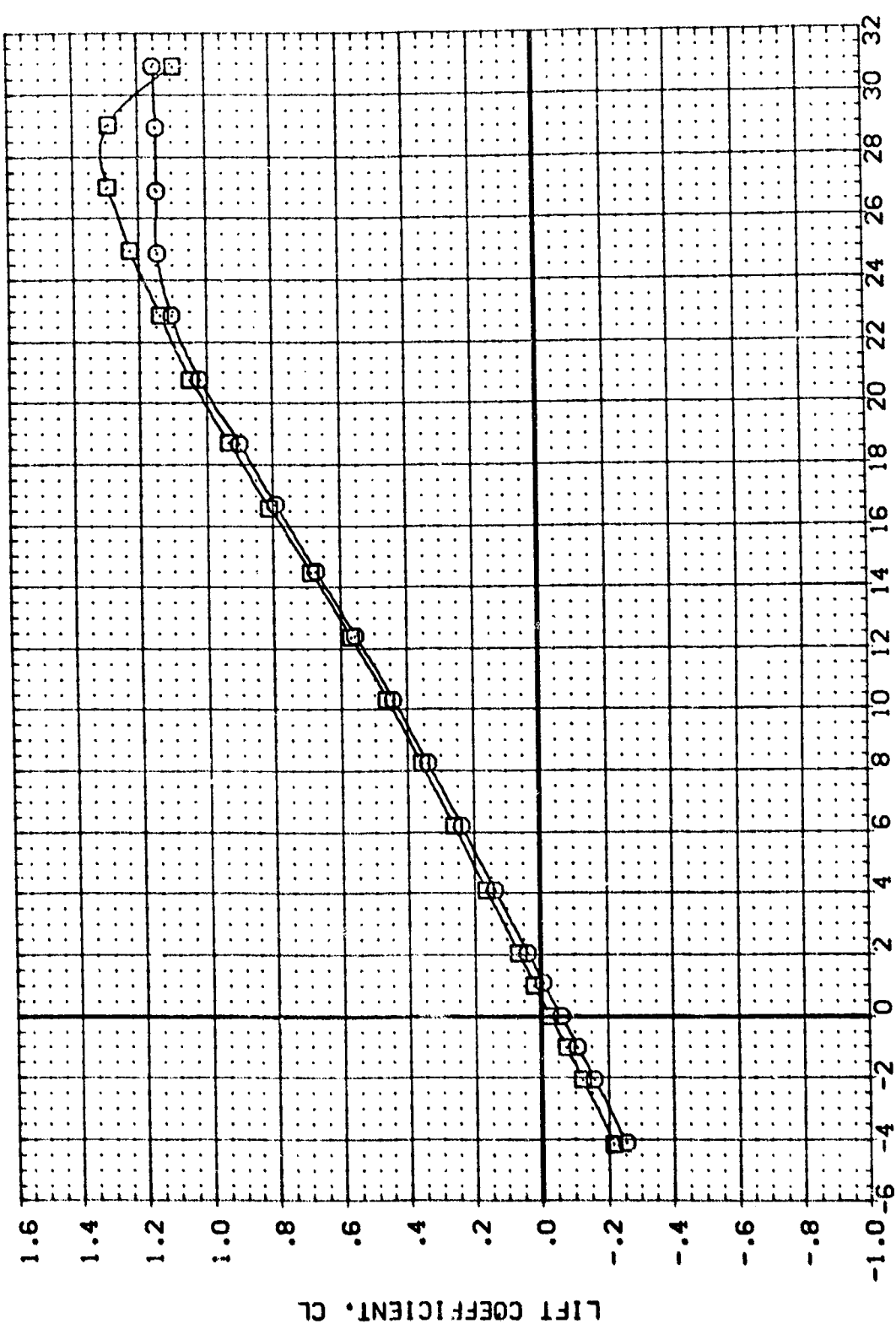


FIG 27 LONGITUDINAL CHARACTERISTICS CLUSTERS UNDERWING XCL = 440 X0 = 1100  
 (A)MACH = .20 PAGE 194



DATA SET SYMBOL  
(ADW047)  
(ADW001)

CONFIGURATION DESCRIPTION

QAG2 B26C9 FB/SI VII16E26V8R5X10  
QAG2 B26C9 FB VII16E26V8R5X9

NACA/ELEVON BOFLAP SPOBRK

.730 .000 -12.000 .000

REFERENCE INFORMATION

SREF 4.4119 SQ.FT.  
LREF 19.2299 INCHES  
BREF 37.9359 INCHES  
XPRP 43.5974 INCHES  
YPRP .0000 INCHES  
ZPRP 15.1875 INCHES  
SCALE .0405

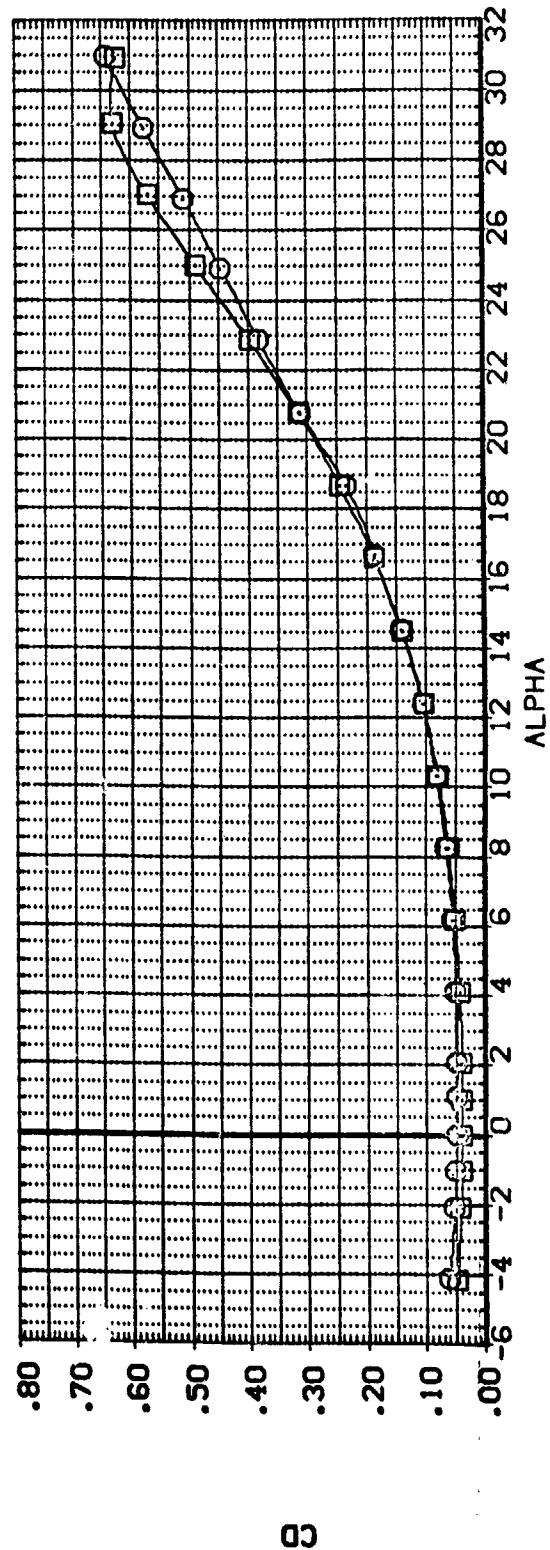
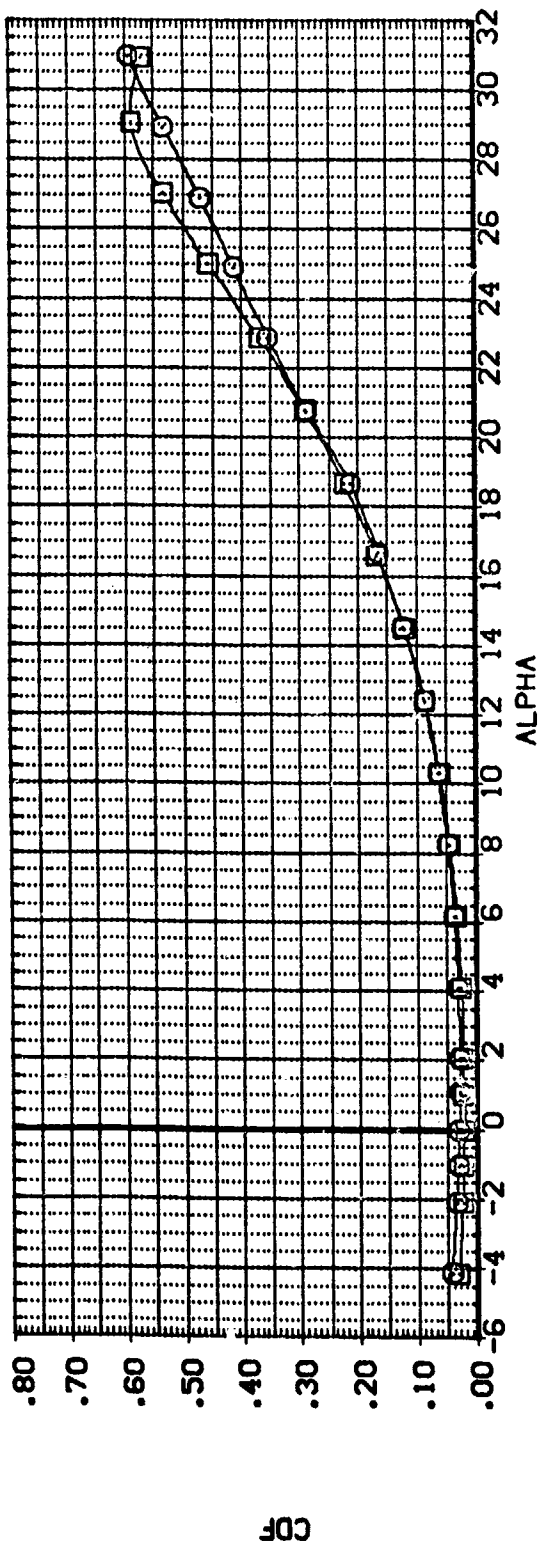


FIG 27 LONGITUDINAL CHARACTERISTICS CLUSTERS UNDERWING XCL = 440 X0 = 1100  
(A)MACH = .20

DATA SET SYMBOL: (ADM047) (ADM001)

CONFIGURATION DESCRIPTION: OA62 B26C9 OA62 B26C9 FB V116E26V8RSX10 FB V116E26V8RSX9

NACXAL: .730

ELEVON: .000 .000

BOFLAP: -12.000 -12.000

SPOBRK: .000 .000

REFERENCE INFORMATION:

	4.4119	50.17
SREF	19.2299	INCHES
LRFP	37.9359	INCHES
YMRP	43.5374	INCHES
ZMRP	15.0000	INCHES
SCALE	15.1875	INCHES
	.0405	SCALE

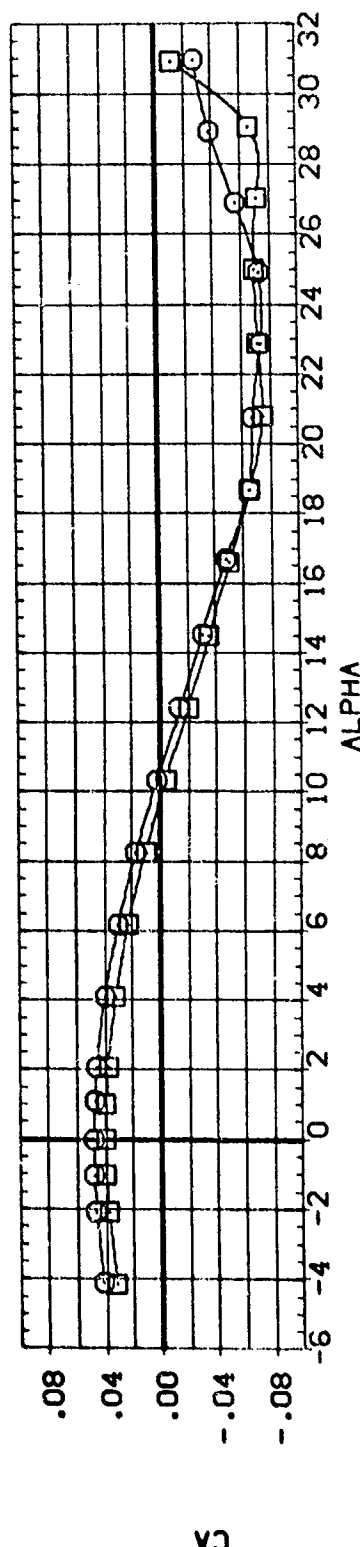
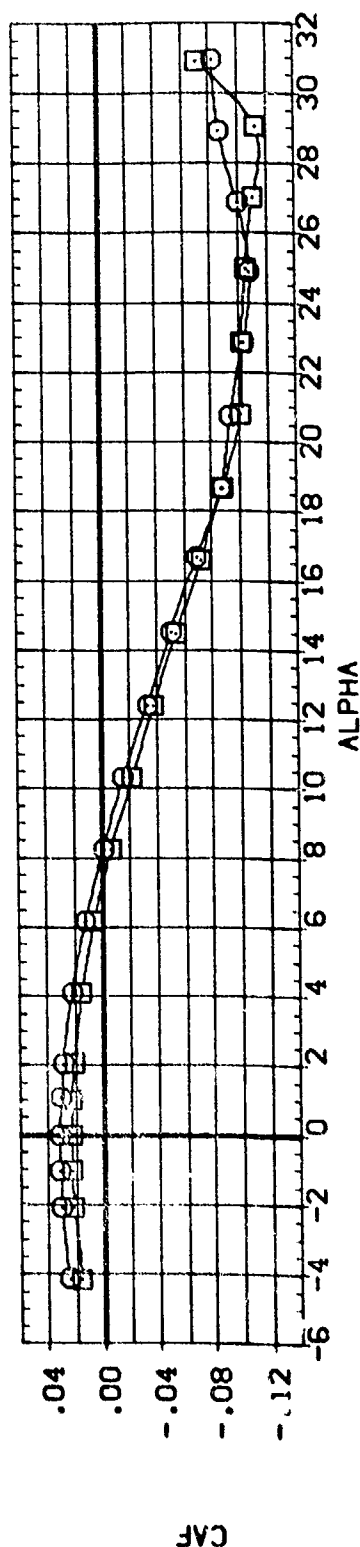
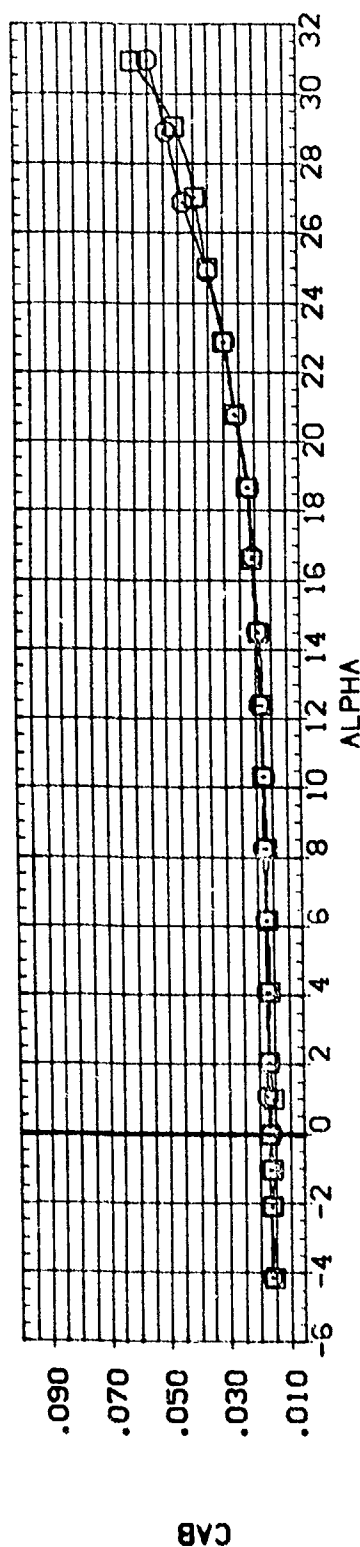


FIG 27 LONGITUDINAL CHARACTERISTICS CLUSTERS UNDERWING XCL = 440 X0 = 1100

(A)MACH = .20

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DATA SET SYMBOL (ADV047) (ADV001)

CONFIGURATION DESCRIPTION  
 DAGE2 B26C9 FB V116E26V6R5X10  
 DAGE2 B26C9 FB V116E26V6R5X9

NACA/L .730  
 ELEVON .000  
 BOFLAP -12.000  
 SPOBRK .000

REFERENCE INFORMATION  
 SREF 4.4119 SQ.FT.  
 LREF 19.2299 INCHES  
 BREF 37.9359 INCHES  
 XMRP 43.5974 INCHES  
 YMRP .0000 INCHES  
 ZMRP 15.1875 INCHES  
 SCALE .0405

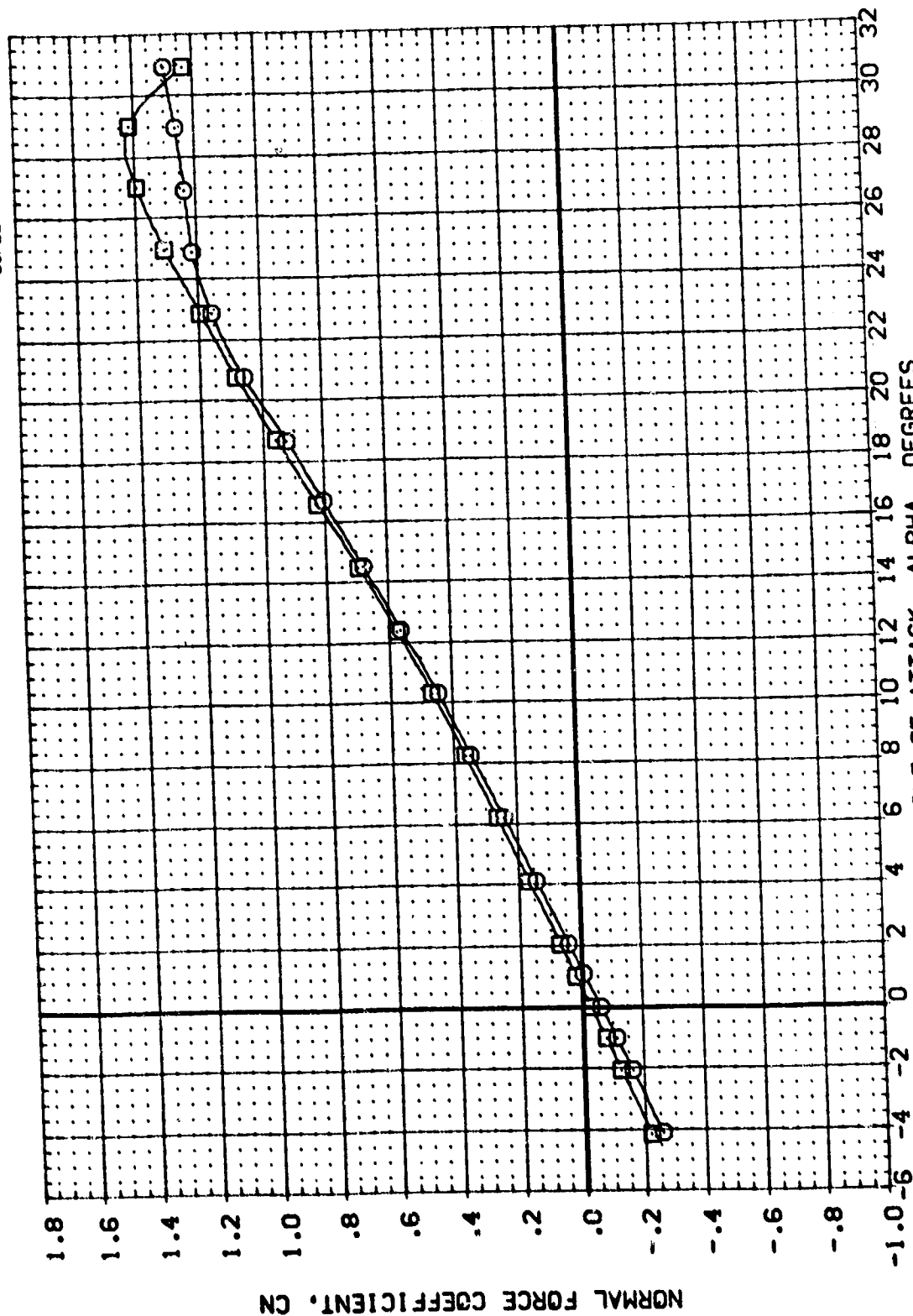


FIG 27 LONGITUDINAL CHARACTERISTICS CLUSTERS UNDERWING XCL = 440 X0 = 1100  
 (A)MACH = .20 PAGE 197

DATA SET SYMBOL: OA62 B26C9 F8J51V116E26V8Sx10  
 (ADVO47) OA62 B26C9 F8 V116E26V8Sx9  
 (ADVO01) ☐ ☐

CONFIGURATION DESCRIPTION

MACX/L: .730 ELEVON: .000 BOFLAP: .000 SPOBRK: .000

REFERENCE INFORMATION

SREF: 4.4119 SQ.FT.  
 LREF: 19.2299 INCHES  
 BREF: 37.9359 INCHES  
 XMRP: 43.5974 INCHES  
 YMRP: .0003 INCHES  
 ZMRP: 15.1875 INCHES  
 SCALE: .0405

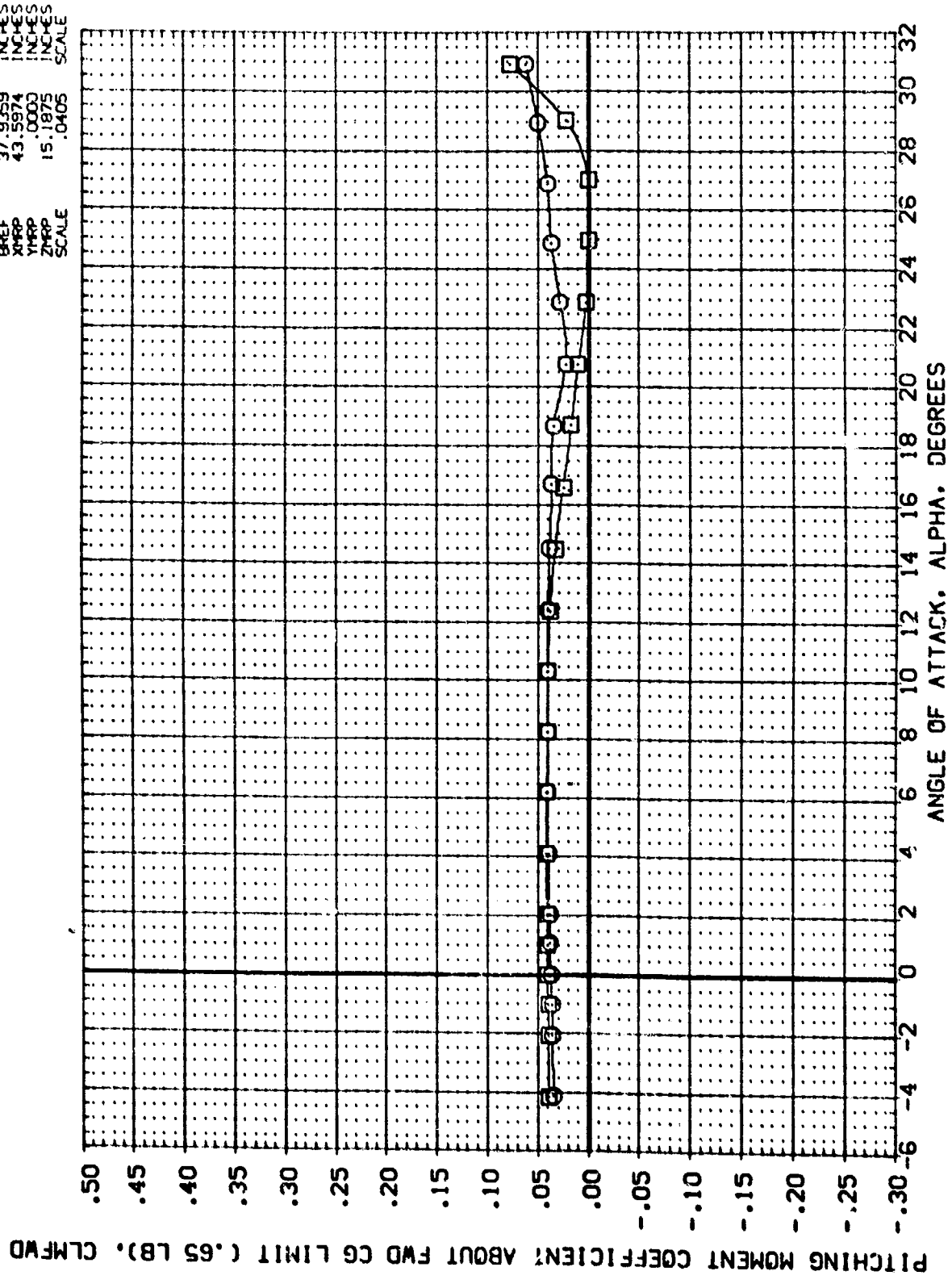
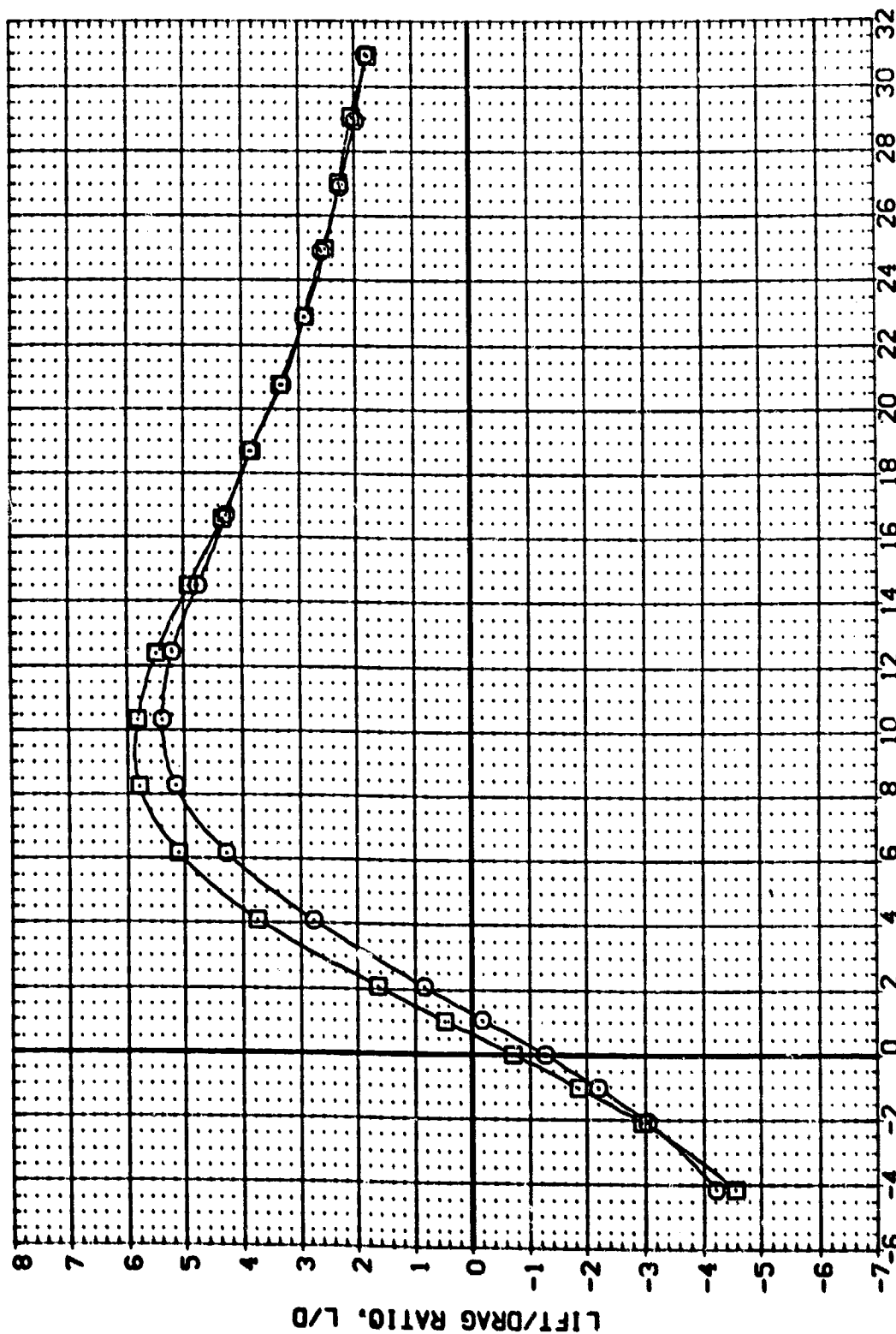


FIG 27 LONGITUDINAL CHARACTERISTICS CLUSTERS UNDERWING XCL = 440 X0 = 1100  
 (A)MACH = .20 PAGE 198

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (ADVOA7) 0A52 B26C FB/SI/VI/BE/25/VR/SX/IO  
 (ADVOG1) 0A52 B26C FB VI/BE/25/VR/SX/9

MACVL ELEVON BOFLAP SPOBRK  
 .730 .000 -12.000 .000

REFERENCE INFORMATION  
 SREF 4.4119 SQ.FT.  
 LREF 19.2298 INCHES  
 BREF 37.9359 INCHES  
 XMRP 43.5974 INCHES  
 YMRP .0000 INCHES  
 ZMRP 15.1875 INCHES  
 SCALE .0405



ANGLE OF ATTACK, ALPHA, DEGREES

FIG 27 LONGITUDINAL CHARACTERISTICS CLUSTERS UNDERWING XCL = 440 X0 = 1100

(A)MACH = .20

LONGITUDINAL CENTER OF PRESSURE LOCATION, FRACTION BODY LENGTH XCP/L

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NACX/L	ELEVON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(AD047)	QAS2 B2C3	.730	.000	-12.000	.000	SREF 4.4119 SU.FT.
(AD001)	QAS2 B2C3		.000	-12.000	.000	LREF 19.2298 INCHES
						BREF 37.9339 INCHES
						XMRP 43.5974 INCHES
						YMRP .0000 INCHES
						ZMRP 15.1875 INCHES
						SCALE .0405 SCALE

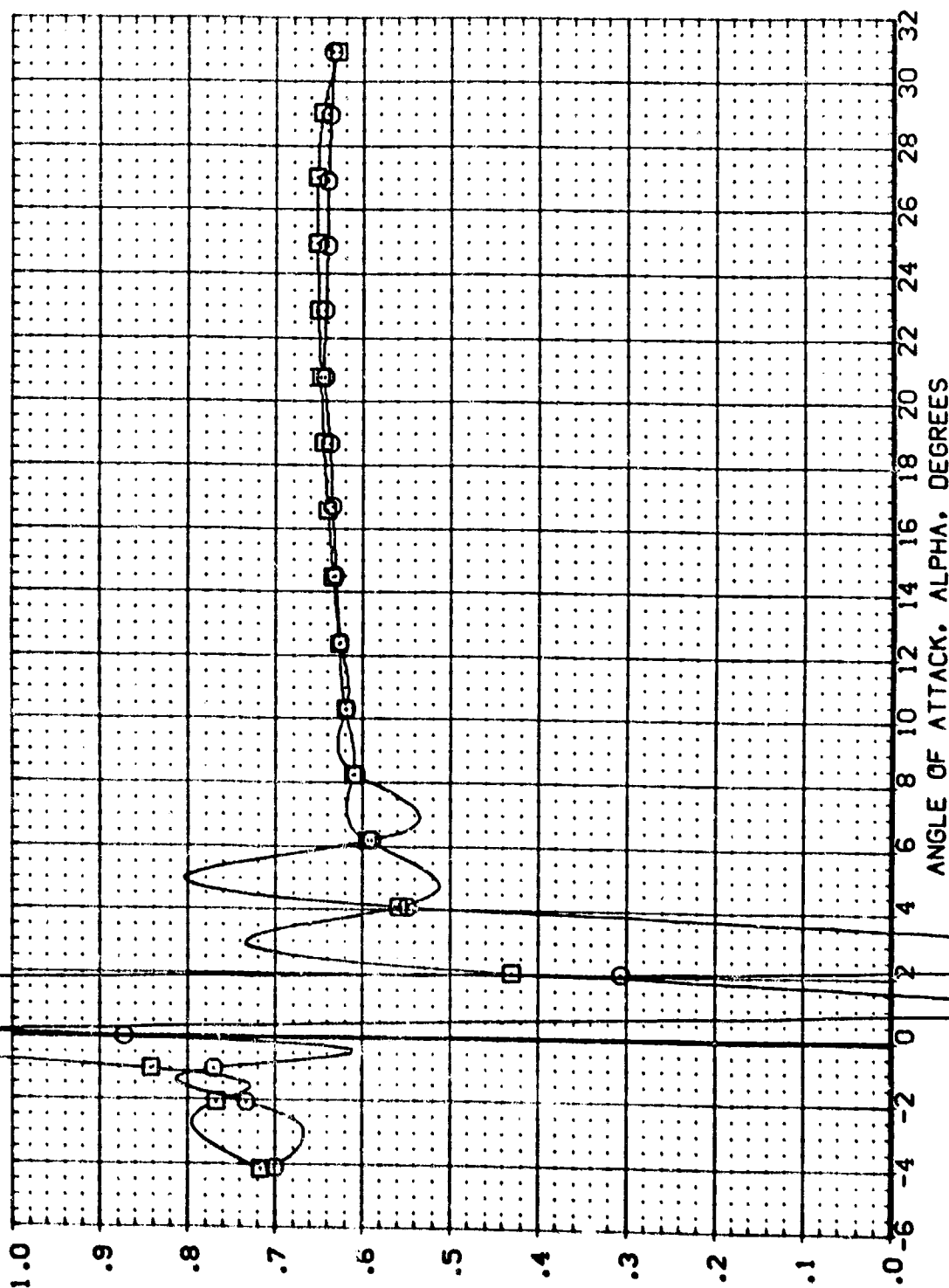


FIG 27 LONGITUDINAL CHARACTERISTICS CLUSTERS UNDERWING XCL = 440 X0 = 1100  
(A)MACH = .20



REFERENCE INFORMATION	
4.4119	SQ.FT.
19.2299	INCHES
37.9359	INCHES
43.5974	INCHES
.0000	INCHES
15.1875	INCHES
.0405	SCALE

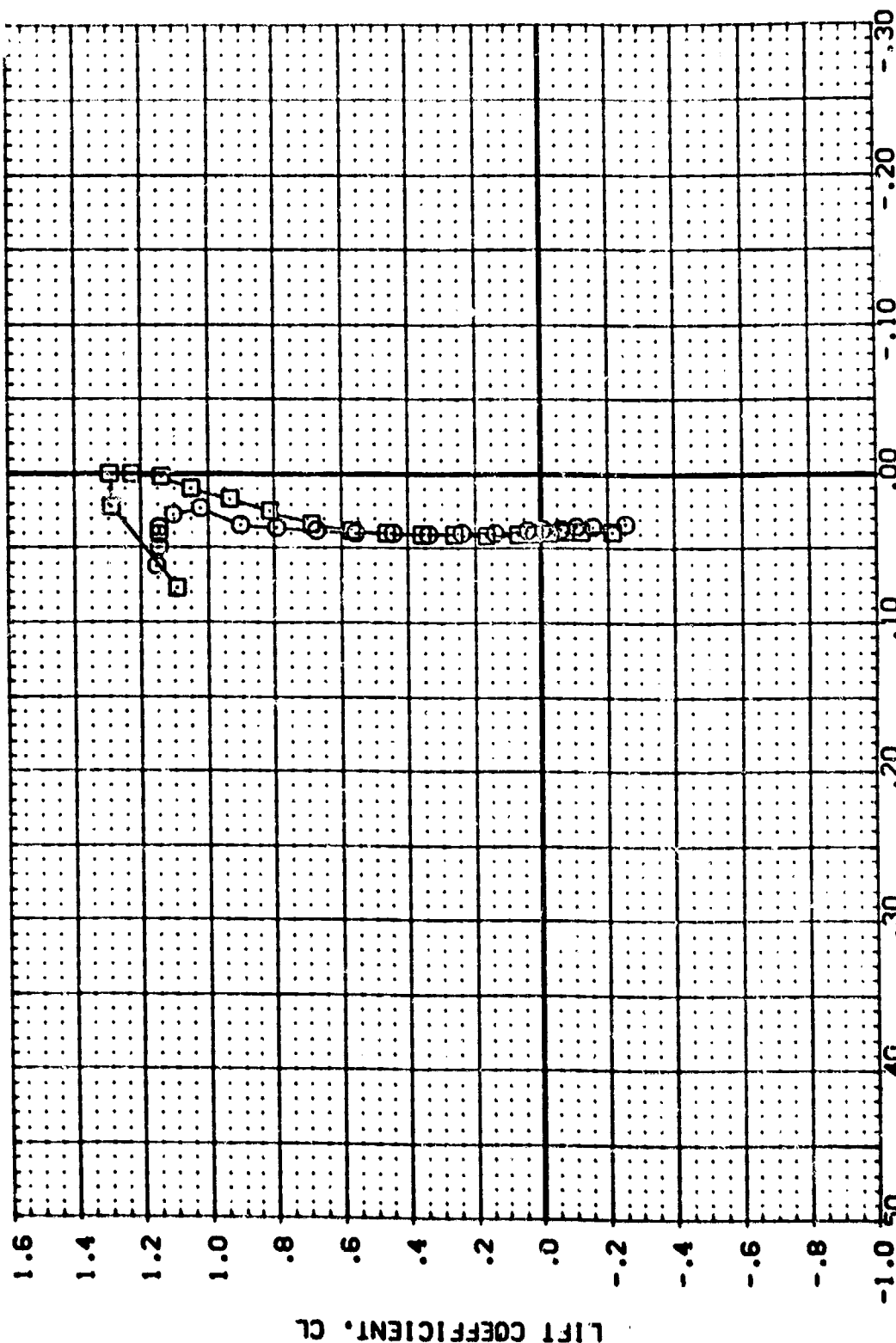


FIG 27 LONGITUDINAL CHARACTERISTICS CLUSTERS UNDERWING XCL = 440 X0 = 1100

(A)MACH = .20

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DATA SET SYMBOL: 0162 B26C9  
 (ADVID47) FB F6J51W11E26V85X10  
 (ADVID1) DAB2 B26C9

CONFIGURATION DESCRIPTION: FB F6J51W11E26V85X10  
 FB W11E26V85X10

REFERENCE INFORMATION:  
 SREF 4.4119 SO.FT.  
 LREF 19.2299 INCHES  
 BREF 37.9359 INCHES  
 XTRP 43.5974 INCHES  
 YTRP 15.0000 INCHES  
 ZTRP 15.1875 INCHES  
 SCALE .0405

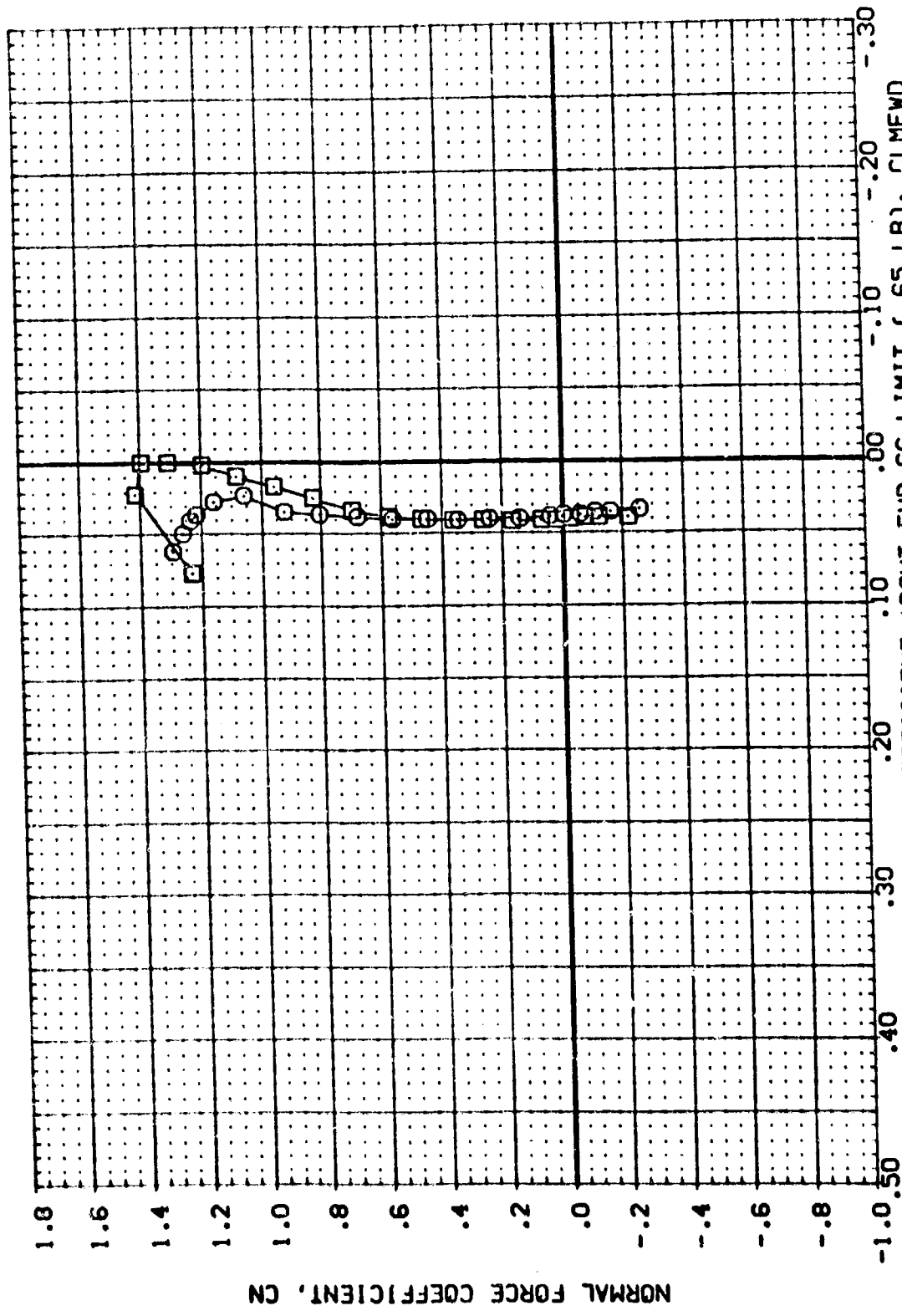


FIG 27 LONGITUDINAL CHARACTERISTICS CLUSTERS UNDERWING XCL = 440 XO = 1100  
 (A)MACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NACA	ELEVON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(AD047)	0462 B26C9 F&S V116E26VBR5X10	.730	.000	-12.000	.000	SREF 4.4119 SO.FT
(AD001)	0462 B26C9 F8 V116E26VBR5X9		.000	-12.000	.000	LREF 19.2299 INCHES
						BREF 37.9359 INCHES
						XREF 43.5974 INCHES
						VREF .0000 INCHES
						ZREF 15.1875 INCHES
						SCALE .0405

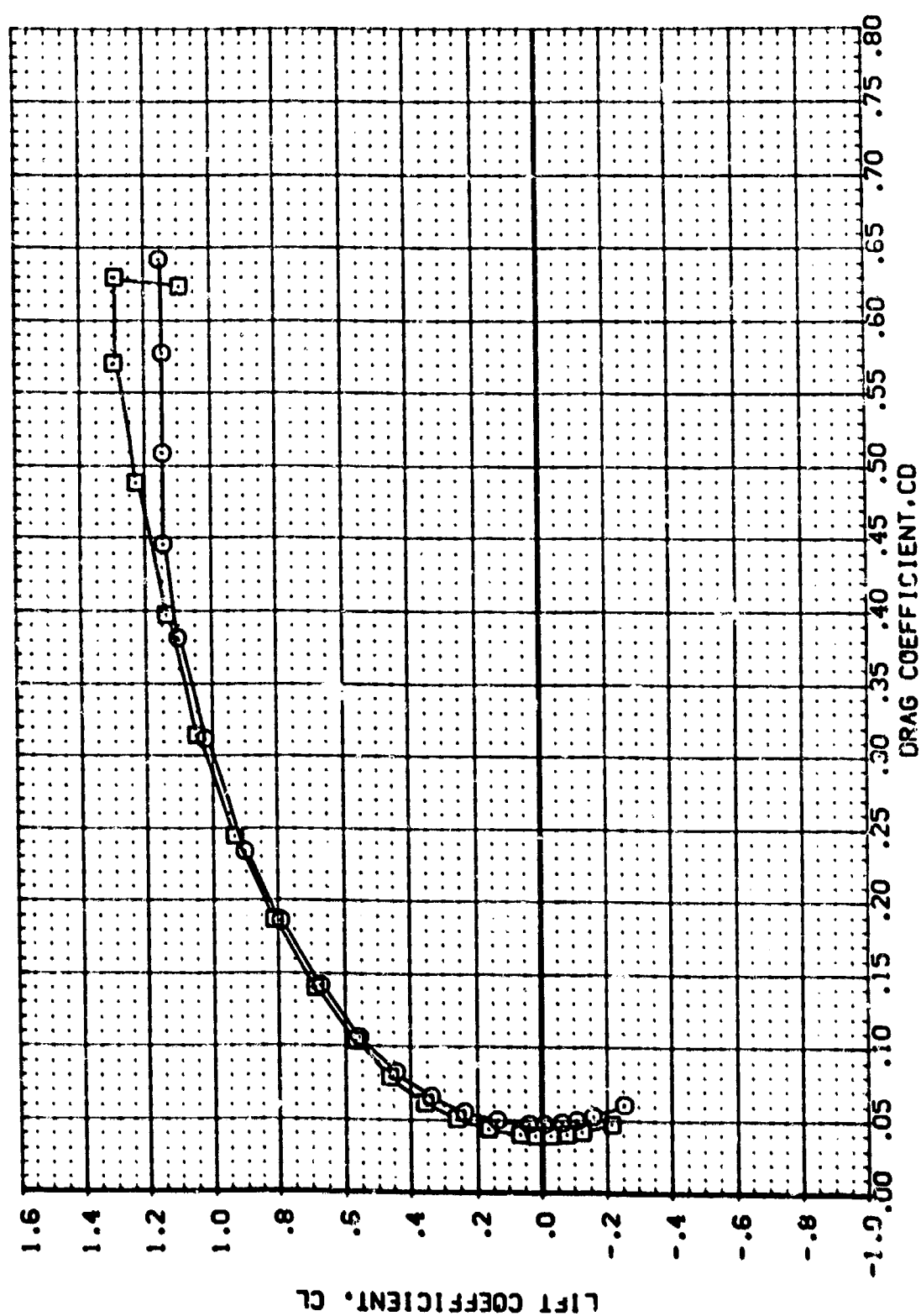


FIG 27 LONGITUDINAL CHARACTERISTICS CLUSTERS UNDERWING XCL = 440 XU = 1100  
 (A)MACH = .20 PAGE 203

REFERENCE INFORMATION		SO. FT.
SREF	4.4119	INCHES
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	44.3d13	INCHES
YMRP	.0000	INCHES
ZMRP	15.1875	INCHES
SCALE	.0405	SCALE

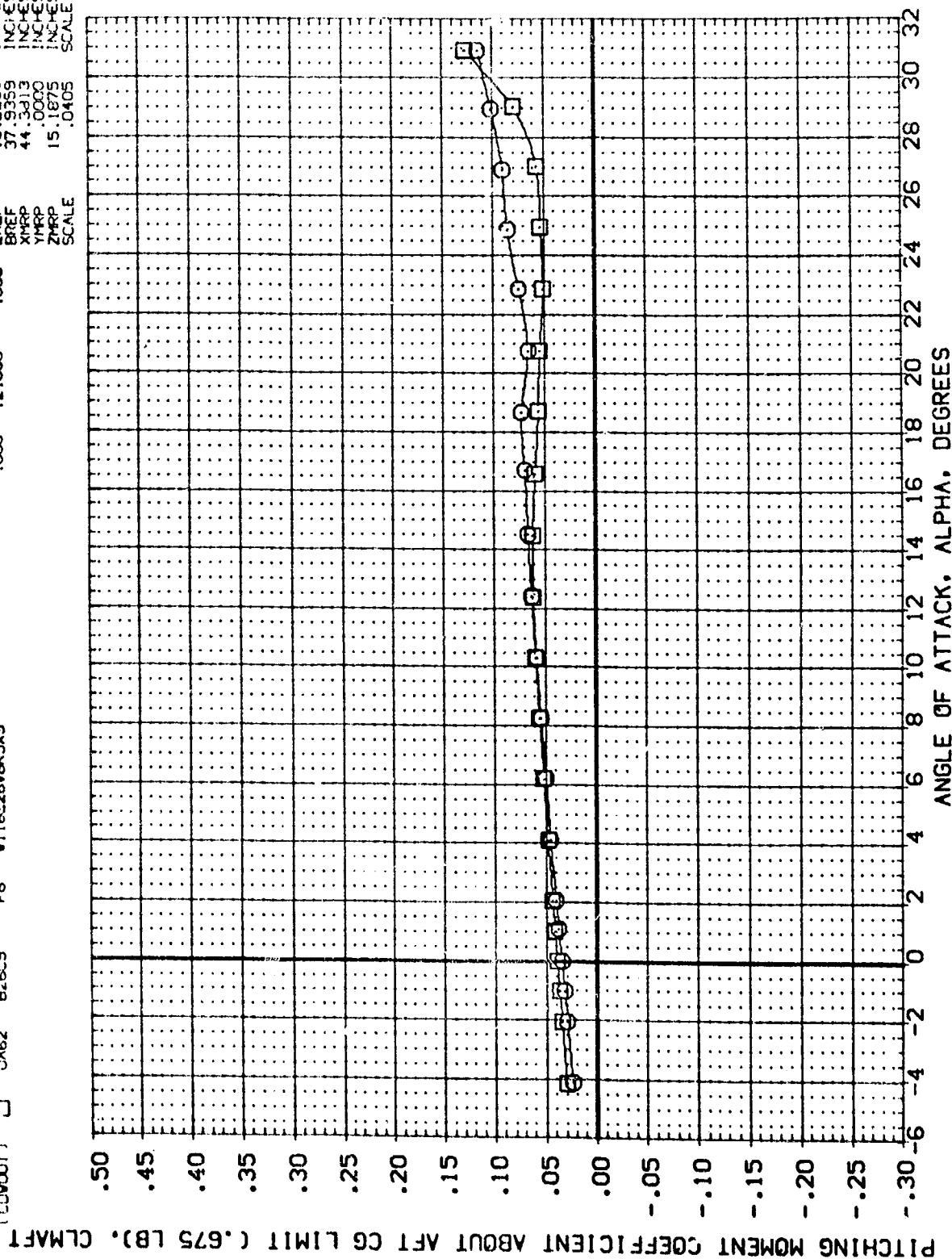


FIG 27 LONGITUDINAL CHARACTERISTICS CLUSTERS UNDERWING XCL = 440 XO = 1100  
CAMACH = .20 PAGE 204

DATA SET SYMBOL	CONFIGURATION	DESCRIPTION	ALPHA	NACX/L	SPDRK	RUDER	REFERENCE INFORMATION
(R0V048)	0A62	B26C9	F8J51V116E26V85SX10	.000	.000	.000	SREF 4.4119 SQ.FT.
(R0V049)	0A62	B26C9	F8J51V116E26V85SX10	.000	.000	.000	LREF 19.2299 INCHES
(R0V002)	0A62	B26C9	F8 J116E26V85SX9	.000	.000	.000	BREF 37.9359 INCHES
(R0V004)	0A62	B26C9	F8 V116E26V85SX9	.000	.000	.000	XMRP 43.5974 INCHES
							YMRP .0000 INCHES
							ZMRP 15.1875 INCHES
							SCALE .0405

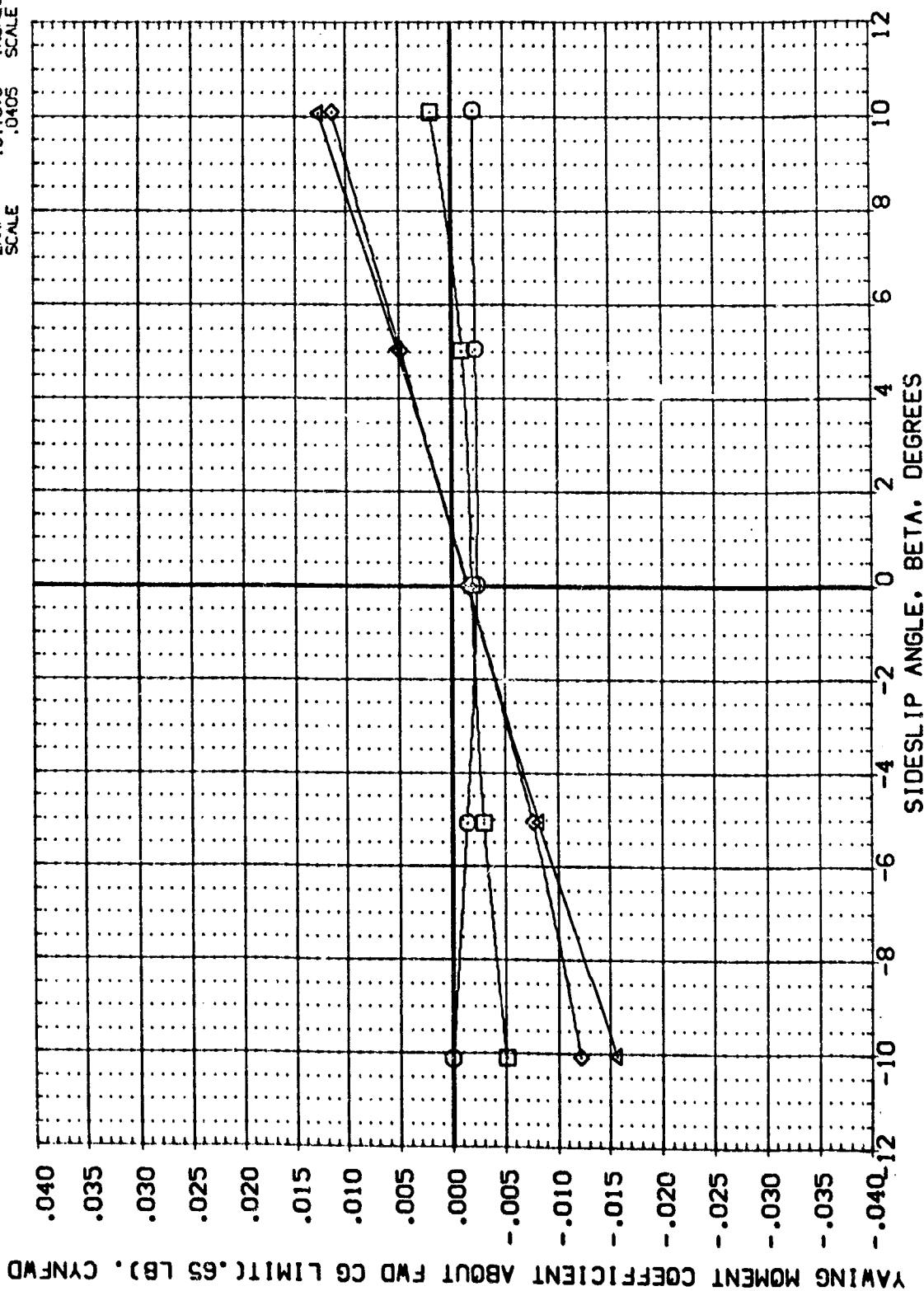


FIG 28 LAT. / DIR. CHARACTERISTICS CLUSTERS UNDERWING XCL = 440 X0 = 1100  
(A)MACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	NACA/L	SPOBRK	RUDER	REFERENCE INFORMATION
(PCV048)	QAS2 B26C9 FBUSIV116E26VBRSA10	.000	.730	.000	.000	SREF 4.4119 SO.FT.
(PCV049)	QAS2 B26C9 FBUSIV116E26VBRSA10	10.000	.730	.000	.000	LREF 19.2299 INCHES
(PCV050)	QAS2 B26C9 FBUSIV116E26VBRSA10	.000	.730	.000	.000	BREF 37.9359 INCHES
(PCV051)	QAS2 B26C9 FBUSIV116E26VBRSA10	.000	.730	.000	.000	XMRP 43.5974 INCHES
(PCV052)	QAS2 B26C9 FBUSIV116E26VBRSA10	.000	.730	.000	.000	YMRP .0000 INCHES
(PCV053)	QAS2 B26C9 FBUSIV116E26VBRSA10	.000	.730	.000	.000	ZMRP 15.1875 INCHES
(PCV054)	QAS2 B26C9 FBUSIV116E26VBRSA10	.000	.730	.000	.000	SCALE .0495

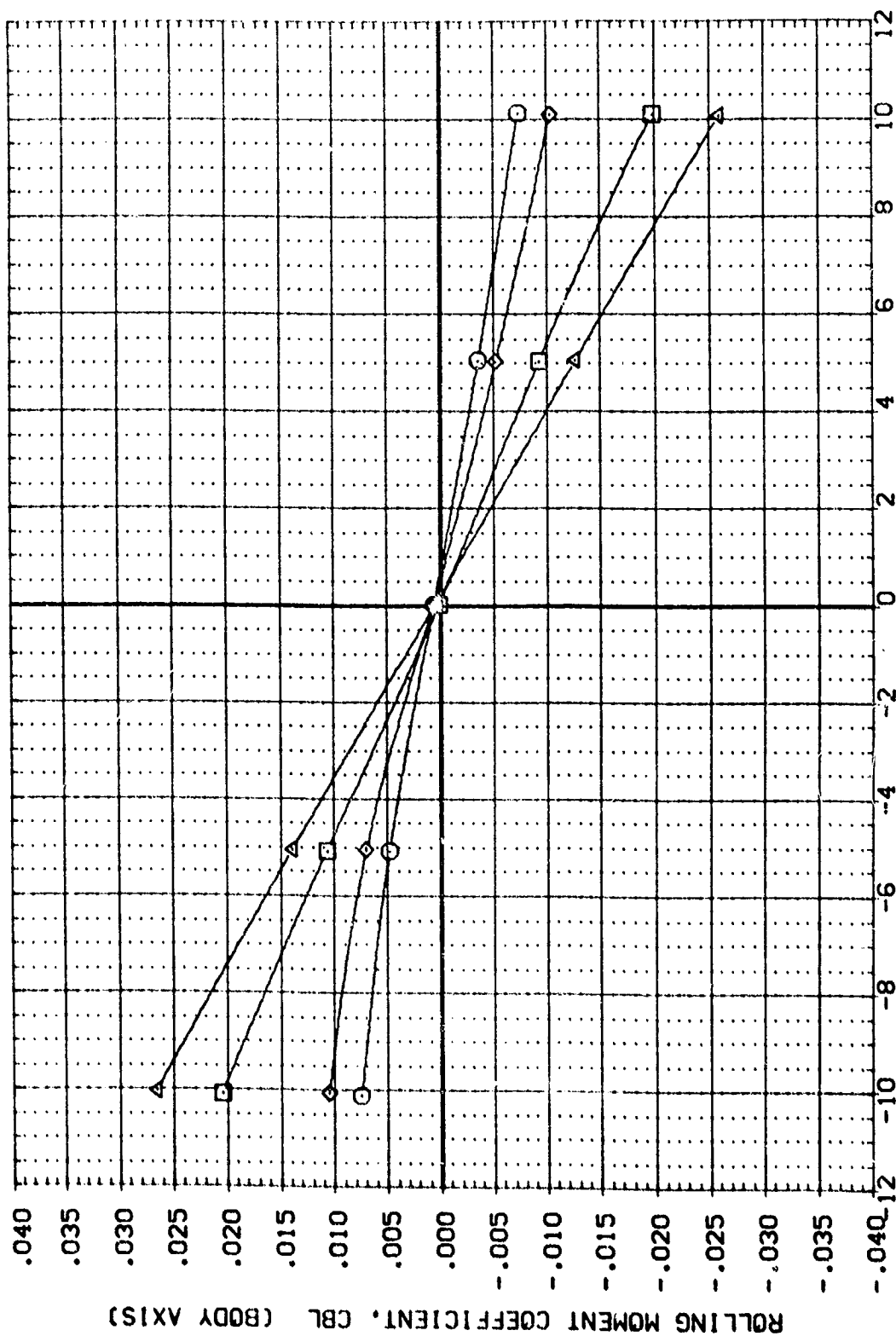


FIG 28 LAT. / DIR. CHARACTERISTICS CLUSTERS UNDERWING XCL = 440 X0 = 1100

(A)MACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	NACA/L	SPDRK	RUDDER	REFERENCE INFORMATION
(R0V048)	0A52 B26C9	.000	.730	.000	.000	SREF 4.4119 SQ.FT.
(R0V049)	0A52 B26C9	10.000	.730	.000	.000	LREF 19.2299 INCHES
(R0V002)	0A52 B26C9	.000		.000	.000	BREF 37.9359 INCHES
(R0V004)	0A52 B26C9	10.000		.000	.000	XMRP 43.5974 INCHES
						YMRP .0000 INCHES
						ZMRP 15.1875 INCHES
						SCALE .0405

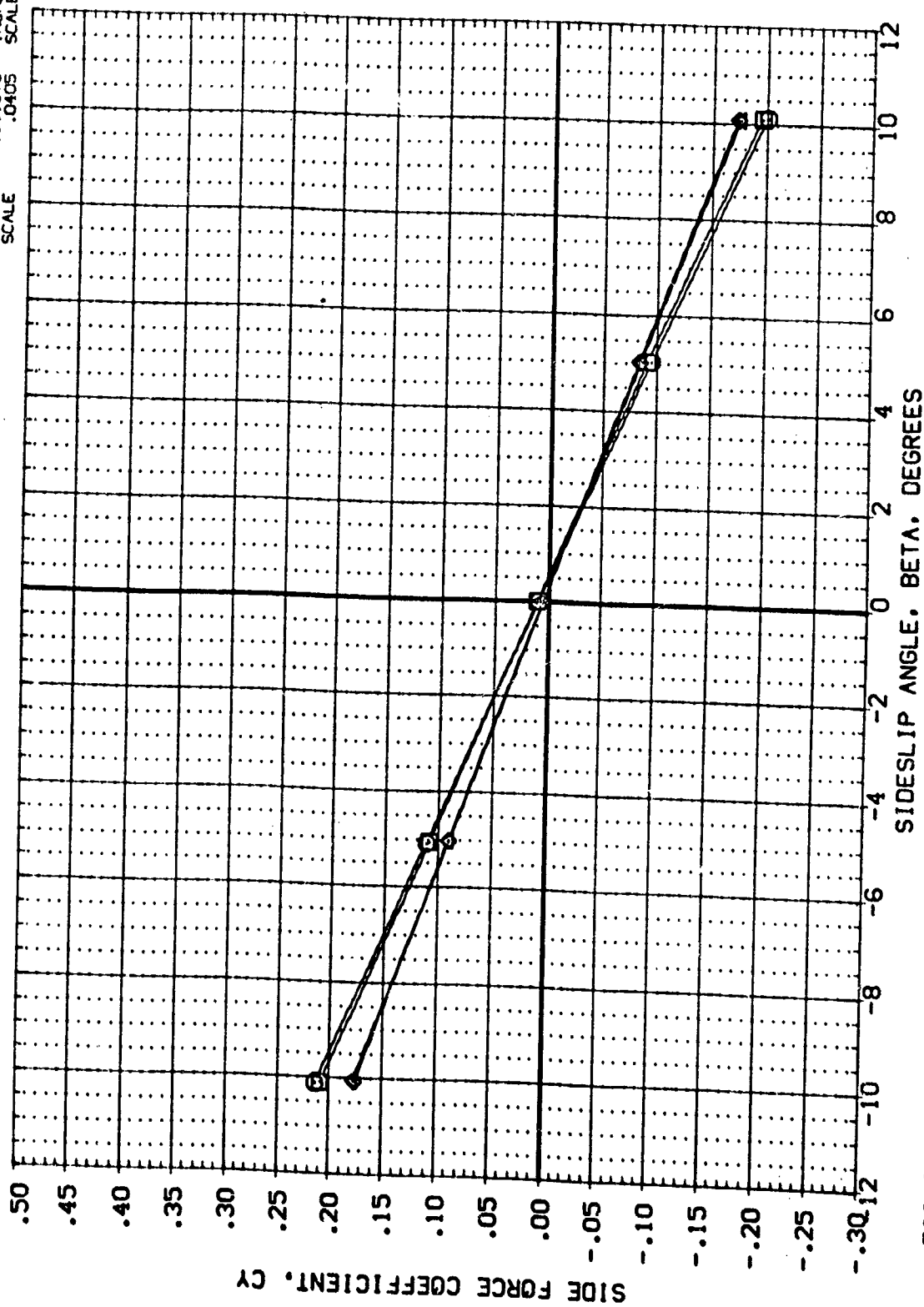


FIG 28 LAT. / DIR. CHARACTERISTICS CLUSTERS UNDERWING  $XCL = 440$   $X0 = 1100$   
 (A)  $MACH = .20$

YAWING MOMENT COEFFICIENT DERIVATIVE WITH BETA, CYNBET, PER DEGREE

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		MACX/L		ELEVON		BOFLAP		SPDBRK		REFERENCE INFORMATION	
(EDV048)	QAG2	B26C9	FBU51V116E26V85X10	.730	.000	-12.000	.000	.000	SREF	4.4119	50.17	INCHES	
(EDV002)	QAG2	B26C9	F8 V116E26V85X9		.000	-12.000	.000	.000	LREF	19.2299	INCHES		
									BREF	37.9359	INCHES		
									XMRP	43.5974	INCHES		
									YMRP	.0000	INCHES		
									ZMRP	15.1875	INCHES		
									SCALE	.0405	SCALE		

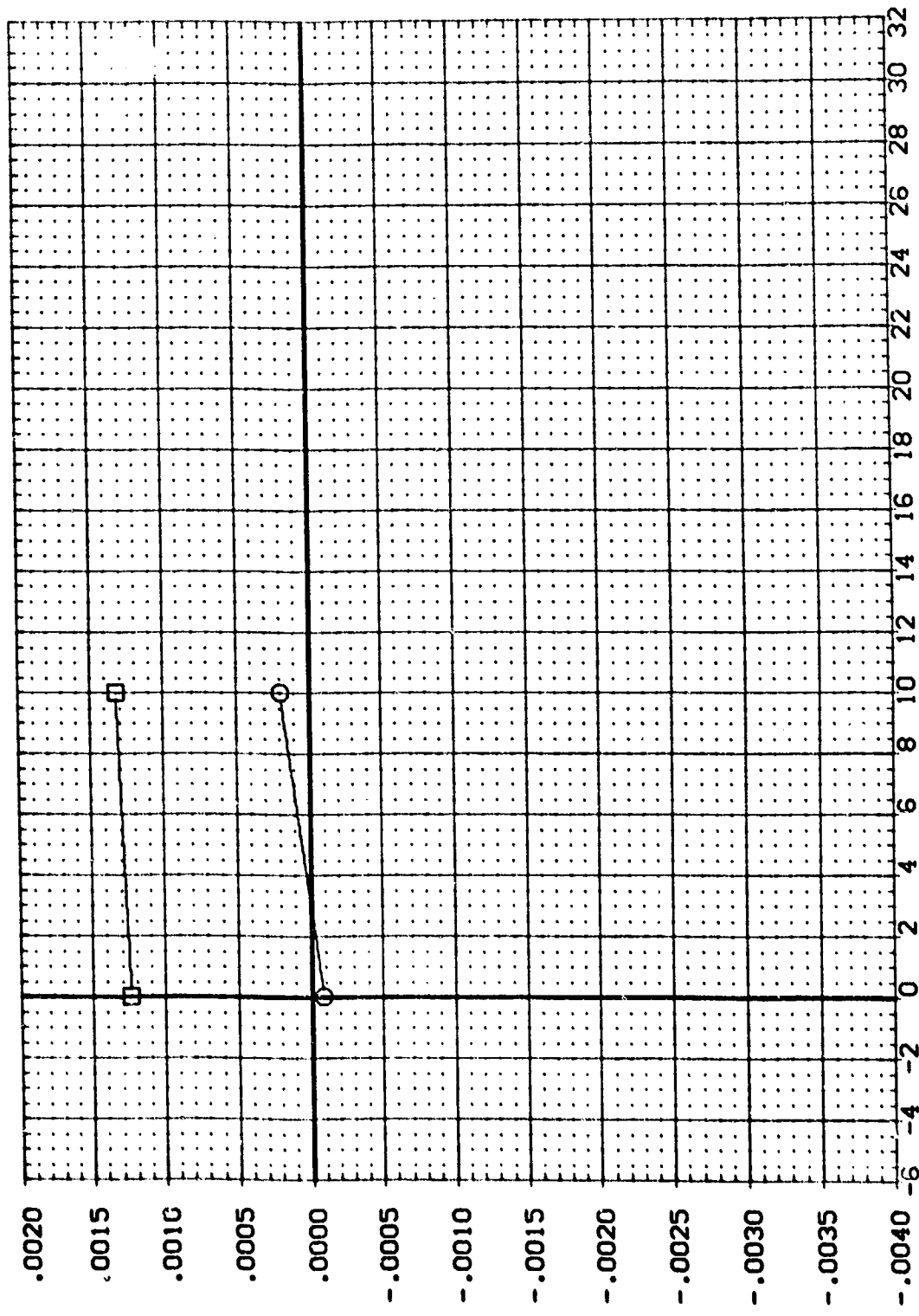
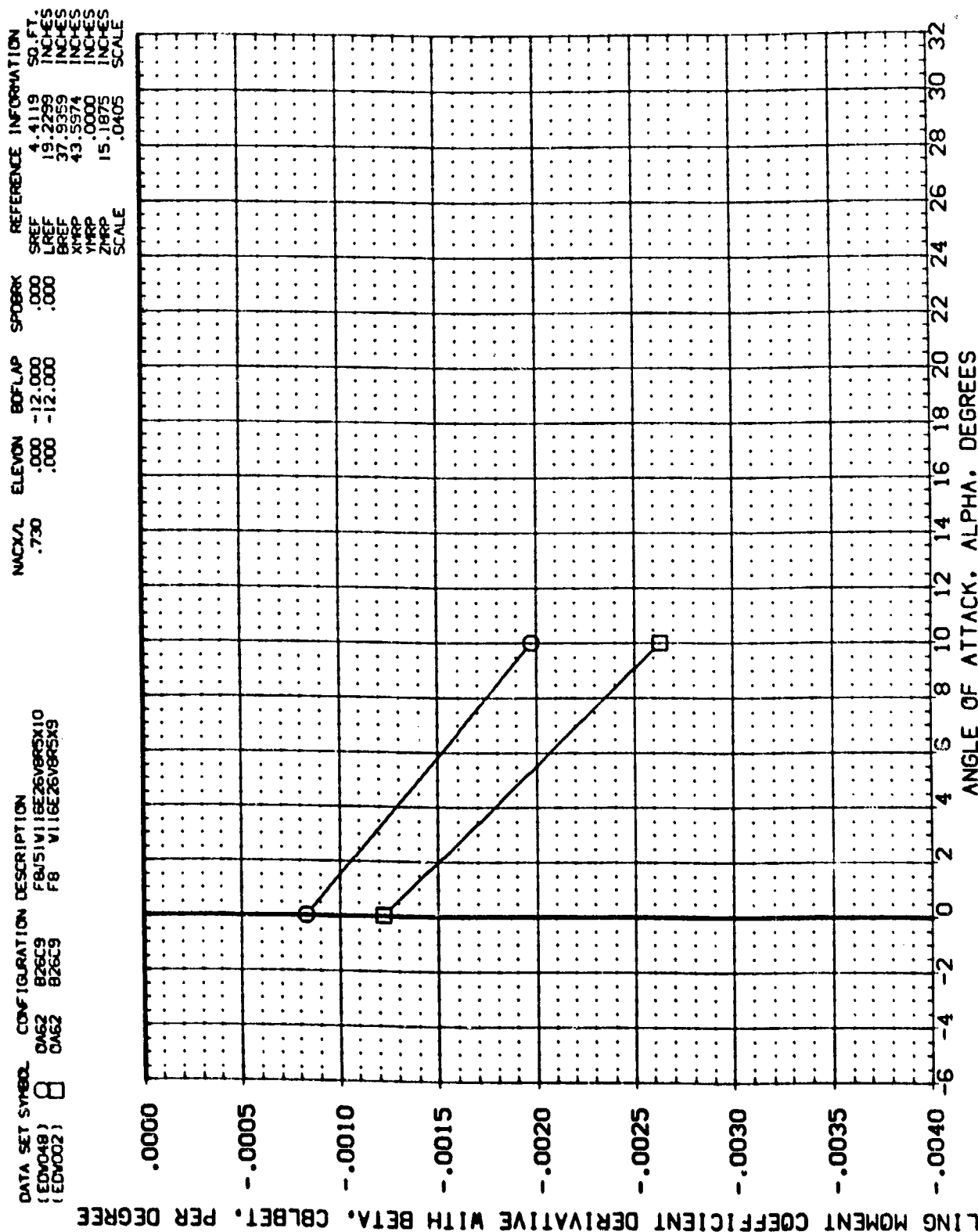


FIG 28 LAT. / DIR. CHARACTERISTICS CLUSTERS UNDERWING XCL = 440 X0 = 1100





DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (EDV048) ☐ DA62 826C9 F8U51V116E26V85X10  
 (EDV002) ☐ DA62 826C9 F8 V116E26V85X9

NACK/L ELEVON BDF/LAP SPOBRK  
 .730 .000 -12.000 .000

REFERENCE INFORMATION  
 SREF 4.4119 SO.FT.  
 LREF 19.2299 INCHES  
 BREF 37.9359 INCHES  
 XMRP 43.5974 INCHES  
 YMRP .0000 INCHES  
 ZMRP 15.1875 INCHES  
 SCALE .0405

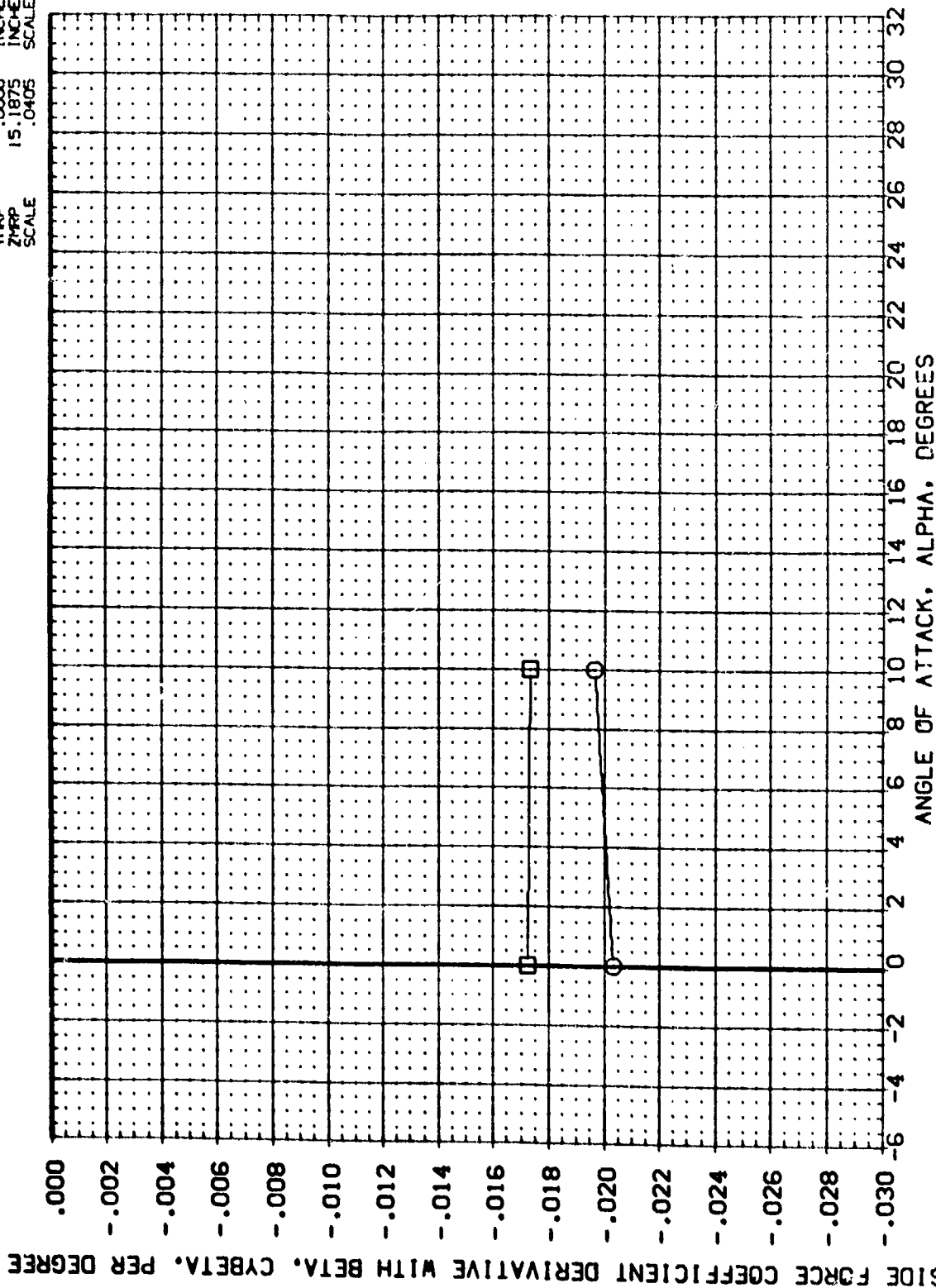


FIG 28 LAT. / DIR. CHARACTERISTICS CLUSTERS UNDERWING XCL = 440 X0 = 1100  
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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MAC/L	ELEVON	BOFLAP	SPDBRK	REFERENCE INFORMATION
(ADV050)	QAS2 B26C9 FB/52V116E26V8K5X10	.730	.000	-12.000	.000	SREF 4.4119 SQ.FT.
(ADV053)	QAS2 B26C9 FB/53V116E26V8K5X10	.730	.000	-12.000	.000	LREF 19.2299 INCHES
(ADV001)	QAS2 B26C9 FB V116E26V8K5X9		.000	-12.000	.000	BREF 37.9358 INCHES
						XMRP 43.5974 INCHES
						YMRP .0000 INCHES
						ZMRP 15.1875 INCHES
						SCALE .0405 SCALE

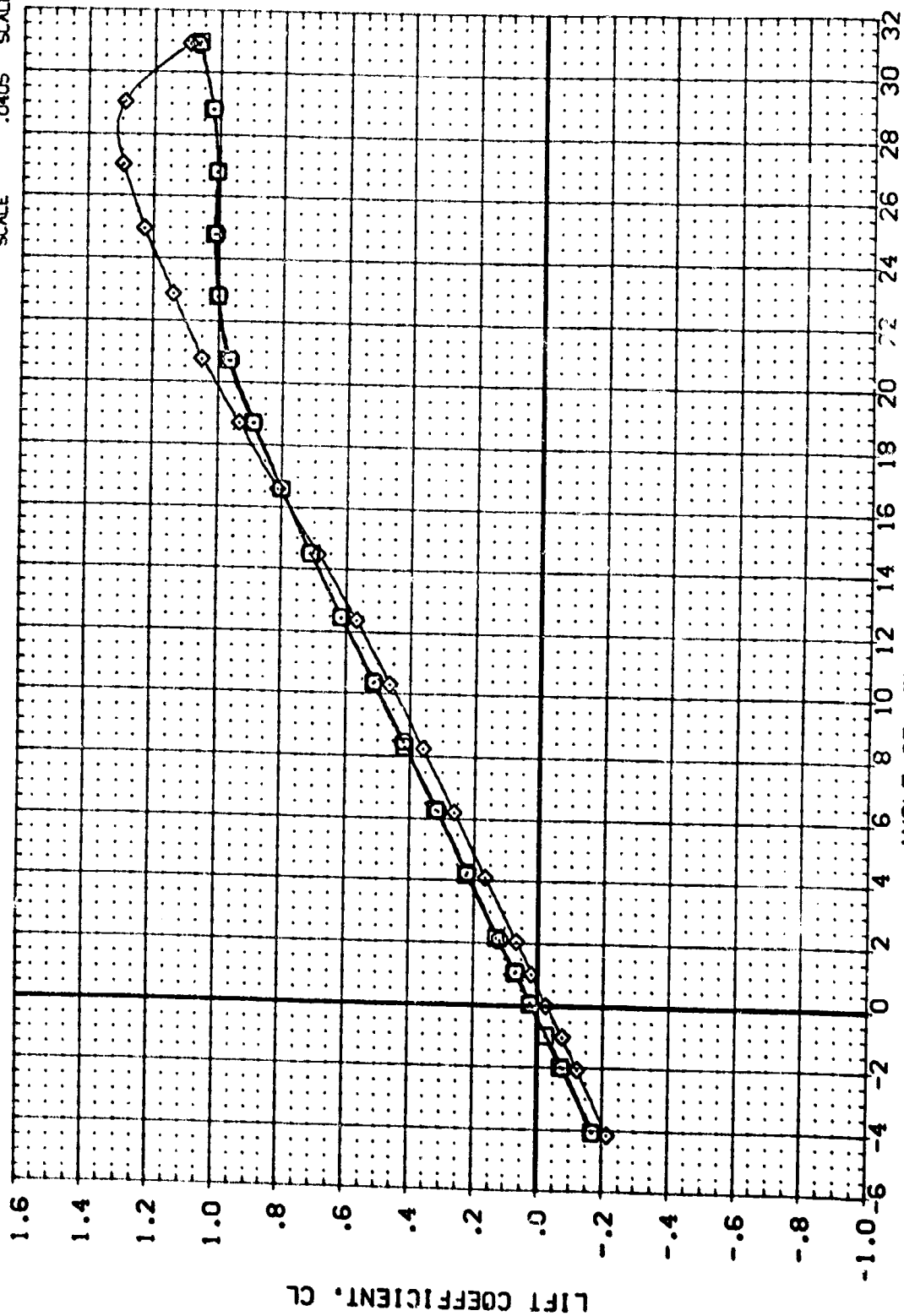


FIG 29 LONGITUDINAL CHARACTERISTICS CLUSTERS OVERWING XCL=440.950 X0 = 1100

(A)MACH = .20

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (ADM050) QAG2 B26C9 F8J52V116E26VBR5X10  
 (ADM053) QAG2 B26C9 F8J53V116E26VBR5X10  
 (ADM001) QAG2 B26C9 F8 V116E26VBR5X9

NACX/L ELEVON BOFLAP SPOBRK  
 .730 .000 -12.000 .000  
 .730 .000 -12.000 .000

REFERENCE INFORMATION  
 SREF 4.4119 50.FT INCHES  
 LREF 19.2298 INCHES  
 BREF 37.9359 INCHES  
 XMRP 43.5974 INCHES  
 YMRP .0000 INCHES  
 ZMRP 15.1875 INCHES  
 SCALE .0405

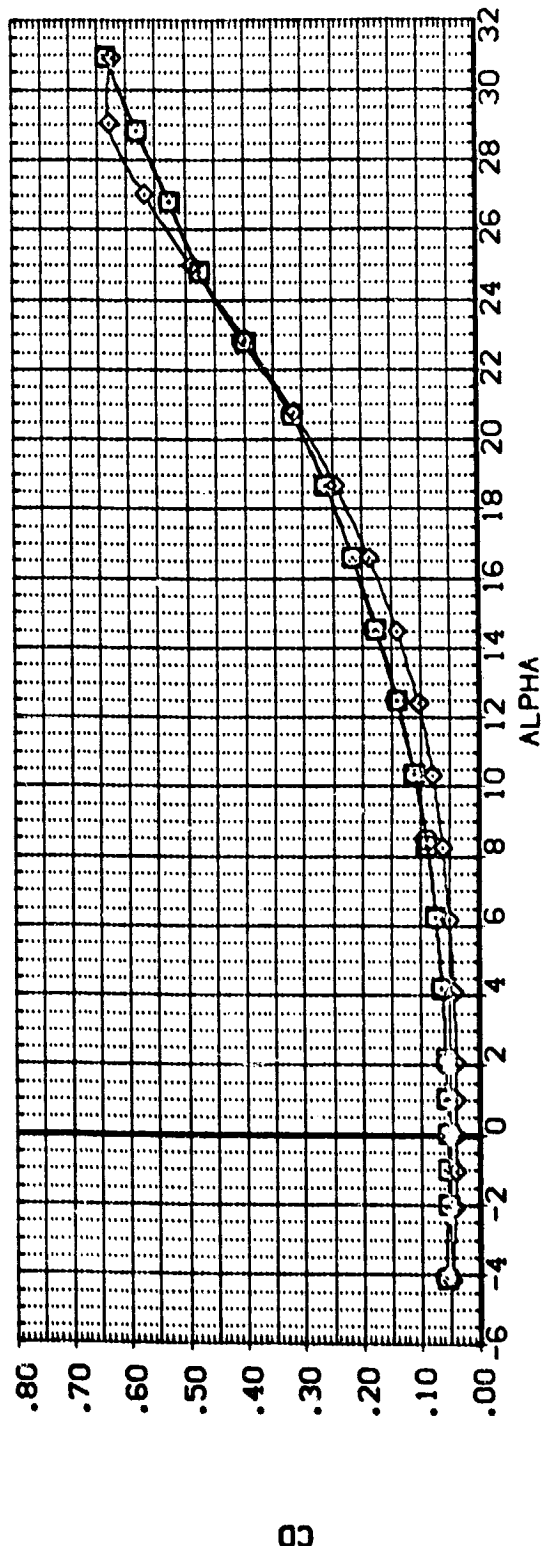
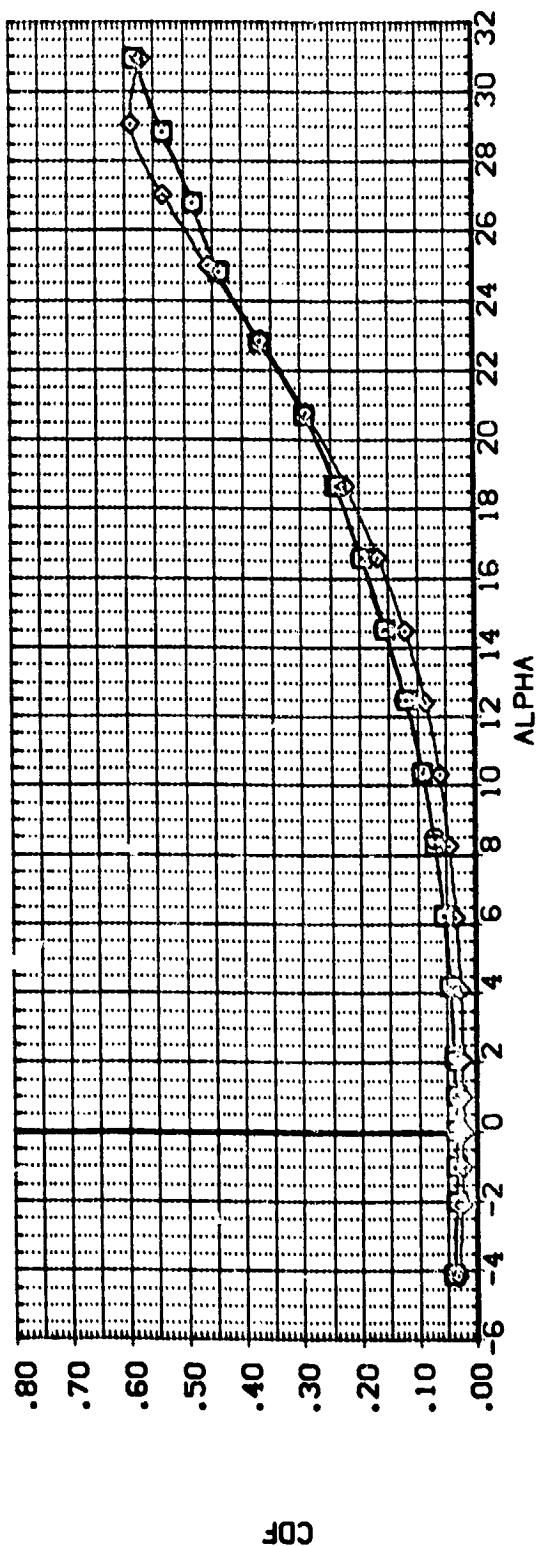


FIG 29 LONGITUDINAL CHARACTERISTICS CLUSTERS OVERWING XCL=440.950 X0 = 1100  
 (A)MACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NACAL	ELEVON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(ADV050)	GA52 B26C9 FB452V116E26V85X10	.730	.000	-12.000	.000	SREF 4.4119 SO.FT.
(ADV053)	GA52 B26C9 FB453V116E26V85X10	.730	.000	-12.000	.000	LREF 19.2299 INCHES
(ADV001)	GA52 B26C9 FB V116E26V85X9		.000	-12.000	.000	BREF 37.9359 INCHES
						XMRP 43.5974 INCHES
						ZMRP 15.1875 INCHES
						SCALE .0405 INCHES

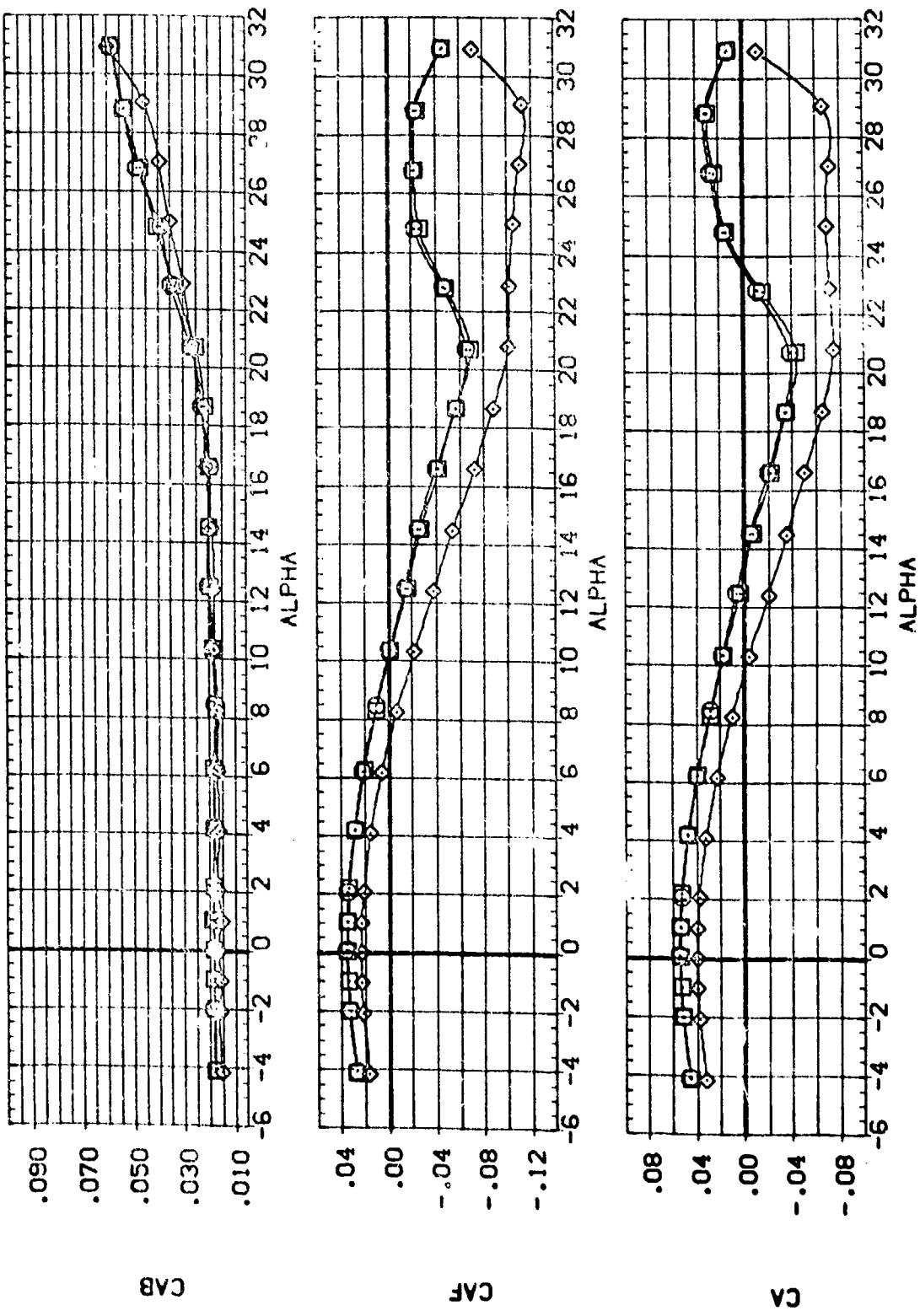


FIG 29 LONGITUDINAL CHARACTERISTICS CLUSTERS OVERWING XCL=440.950 XO = 1100  
 (ADMACH = .20) PAGE 213

# DATA SET SYMBOL CONFIGURATION DESCRIPTION

(AD050)  
(AD053)  
(AD001)

DA62 B26C9  
DA62 B26C9  
DA62 B26C9

FBUS2V116E26VBRX10  
FBUS3V116E26VBRX10  
FB V116E26VBRX38

NACX/L  
.730  
.730

ELEVON  
.000  
.000  
.000

BOFLAP  
-12.000  
-12.000  
-12.000

SPOBRK  
.000  
.000  
.000

REFERENCE INFORMATION  
SREF 4.4119 SQ. FT.  
LREF 19.2299 INCHES  
BREF 37.9359 INCHES  
XMRP 43.5974 INCHES  
YMRP .0000 INCHES  
ZMRP 15.1875 INCHES  
SCALE .0405

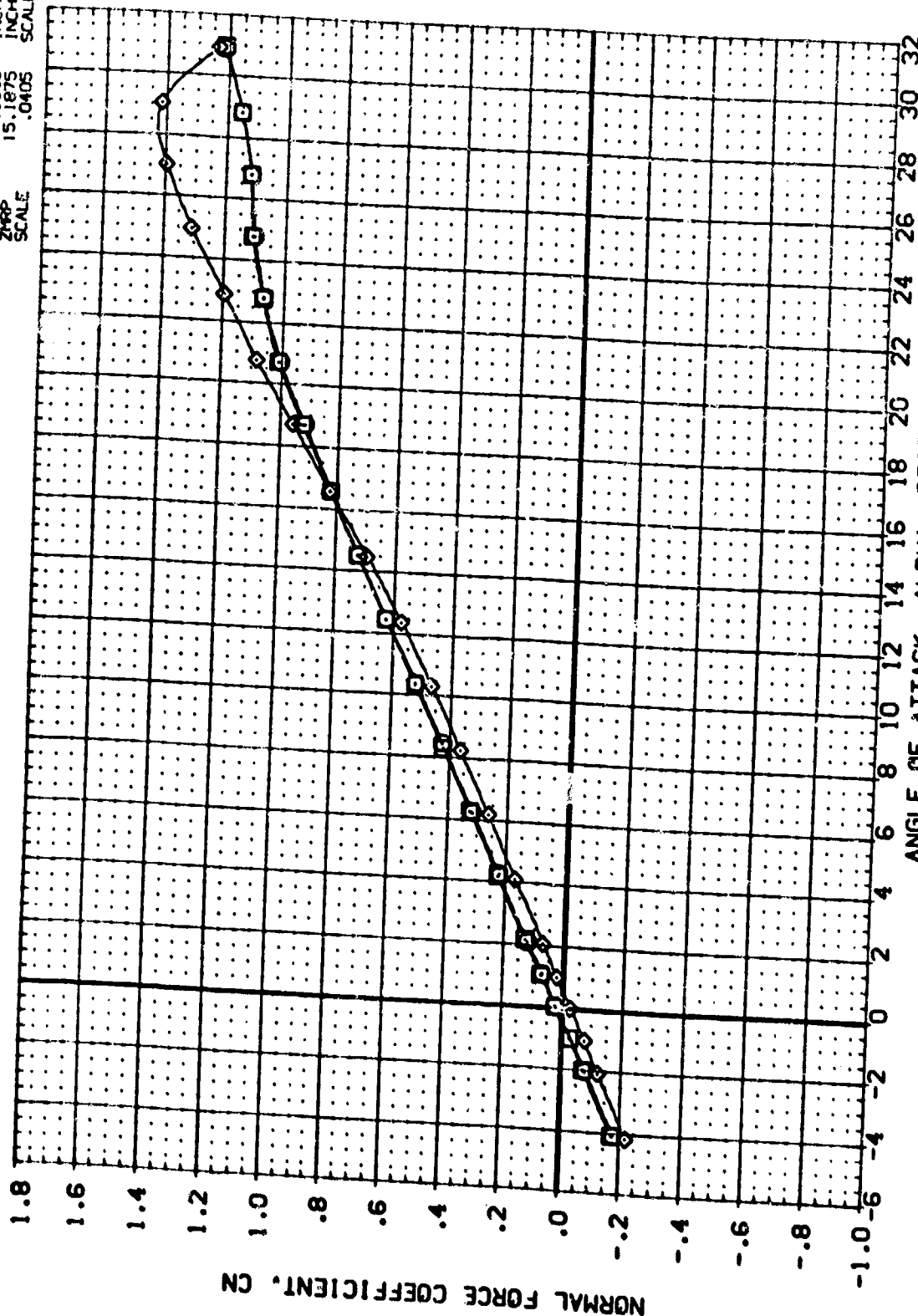


FIG 29 LONGITUDINAL CHARACTERISTICS CLUSTERS OVERWING XCL=440.950 X0 = 1100

(A)MACH = .20

DATA SET SYMBOL		CONFIGURATION DESCRIPTION	NACA/L	ELEVON	BOFLAP	SPOILER	REFERENCE INFORMATION	
(ADVCS0)	0A62	FBUS2W116E26V85X10	.730	.000	-12.000	.000	SREF	4.4119 SQ.FT.
(ADVCS3)	0A62	FBUS3W116E26V85X10	.730	.000	-12.000	.000	LREF	19.2299 INCHES
(ADVCS1)	0A62	FBUS3W116E26V85X9		.000	-12.000	.000	BREF	37.9359 INCHES
							XMRP	43.5974 INCHES
							YMRP	.0000 INCHES
							ZMRP	15.1875 INCHES
							SCALE	.0405

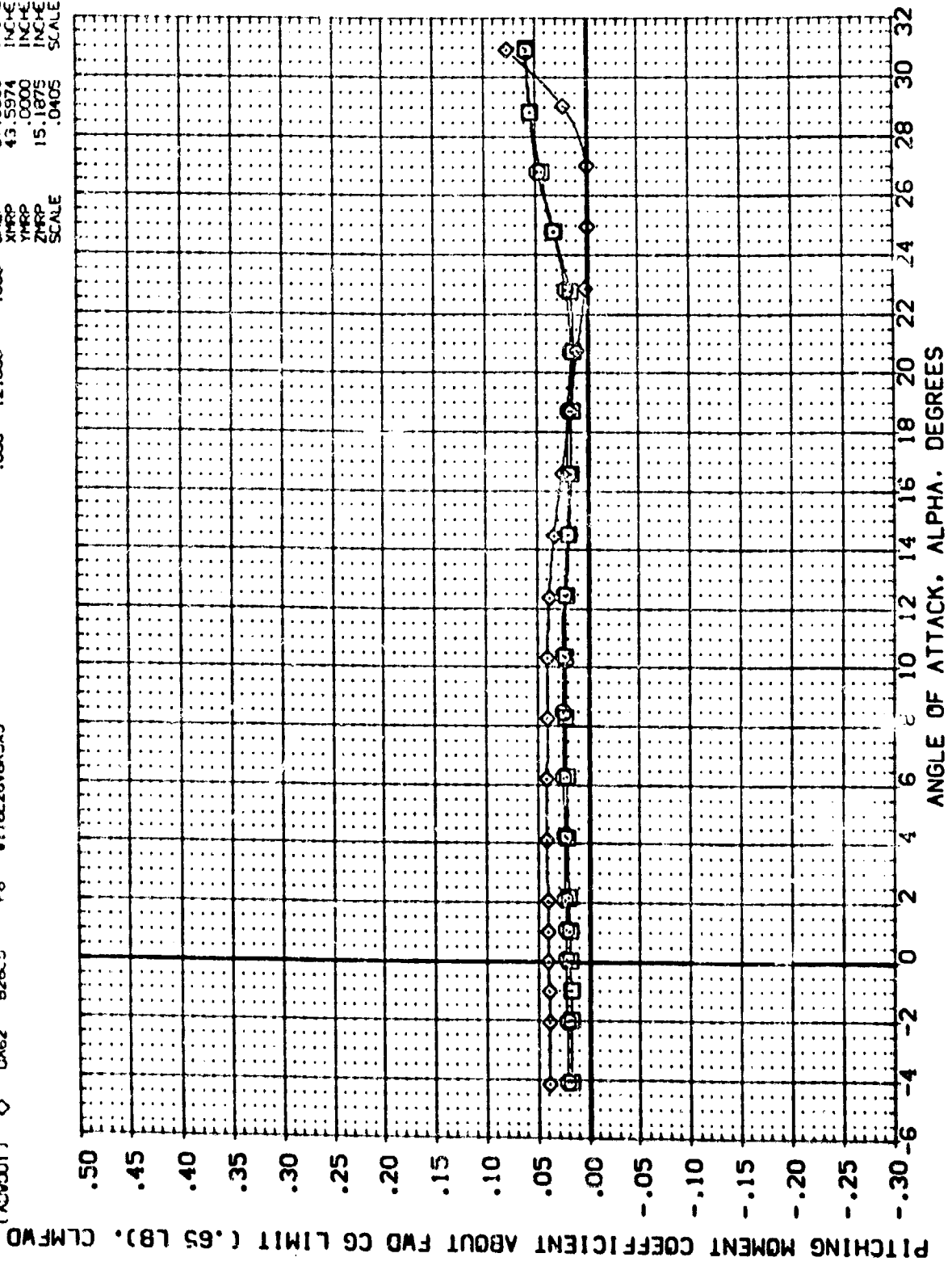


FIG 29 LONGITUDINAL CHARACTERISTICS CLUSTERS OVERWING XCL=440.950 XC = 1100  
 (A)MACH = .20 PAGE 215

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		NACA XL		ELEVON		BOT LAP		SPDRBK		REFERENCE INFORMATION	
(ADW050)	QAG2	B26C9	F8J52W116E26VBR5X10	.730	.000	-12.000	.000	SREF	4.4119	50. FT.			
(ADW053)	QAG2	B26C9	F8J52W116E26VBR5X10	.730	.000	-12.000	.000	LREF	19.2298	INCHES			
(ADW001)	QAG2	B26C9	F8 J116E26VBR5X9		.000	-12.000	.000	BREF	37.9359	INCHES			
								XPRP	43.5974	INCHES			
								YPRP	15.0000	INCHES			
								ZPRP	15.1875	INCHES			
								SCALE	.0405	SCALE			

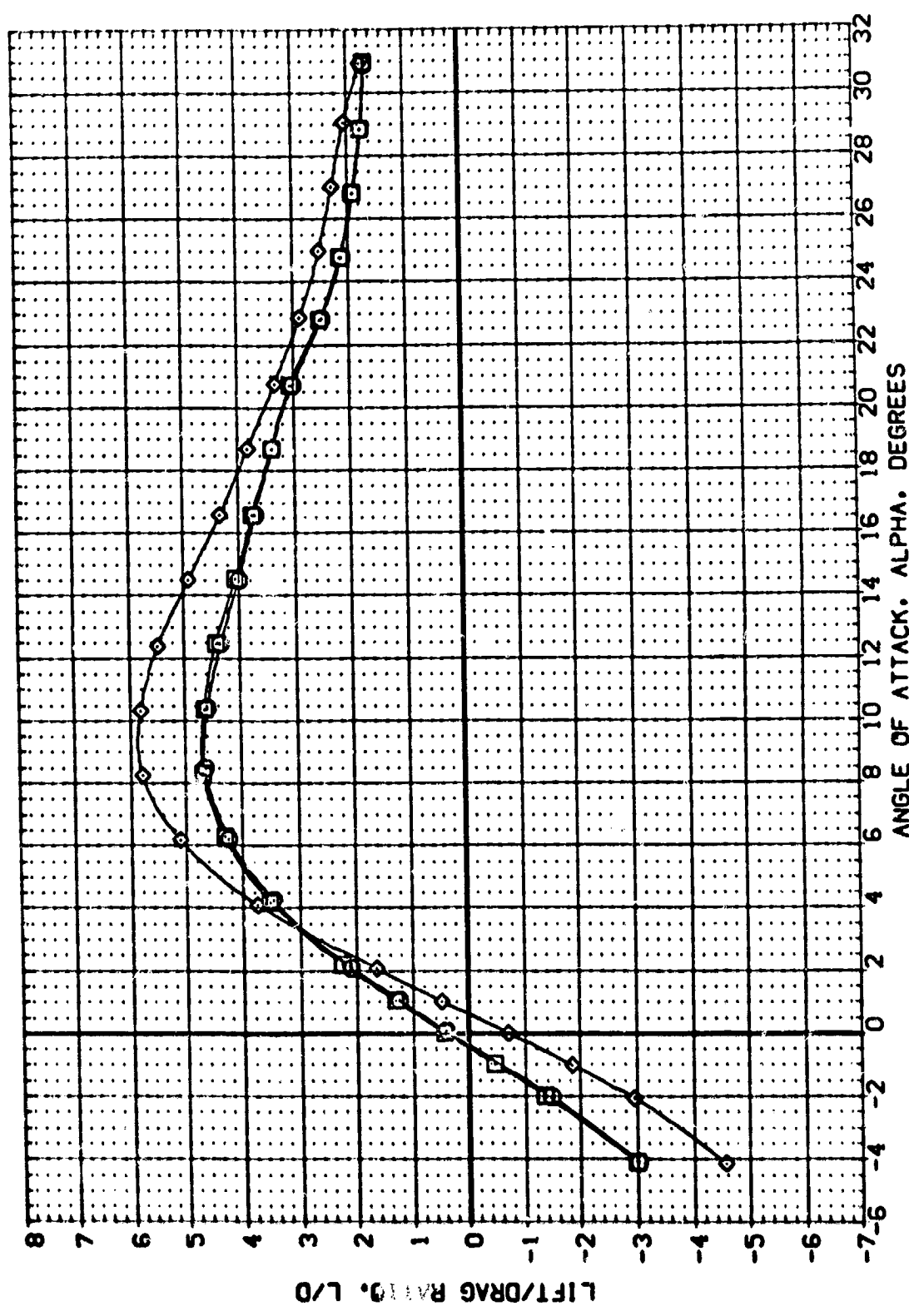


FIG 29 LONGITUDINAL CHARACTERISTICS CLUSTERS OVERWING XCL=440.950 X0 = 1100  
 (A)MACH = .20 PAGE 216





DATA SET	SYMBOL	CONFIGURATION	DESCRIPTION	MACH	ELEVATION	BOFLAP	SPORBR	REFERENCE INFORMATION
(AD050)	□	0A62	F8.32W116E26VBR5X10	.730	.000	-12.000	.000	SREF 4.411" 50. FT.
(AD053)	□	0A62	F8J53W116E26VBR5X10	.730	.000	-12.000	.000	LREF 19.22" INCHES
(AD001)	□	0A62	F8 V116E26VBR5X9		.000	-12.000	.000	BREF 37.537" INCHES
								XTRP 43.5574 INCHES
								YTRP .0000 INCHES
								ZTRP 15.1875 INCHES
								SCALE .0405

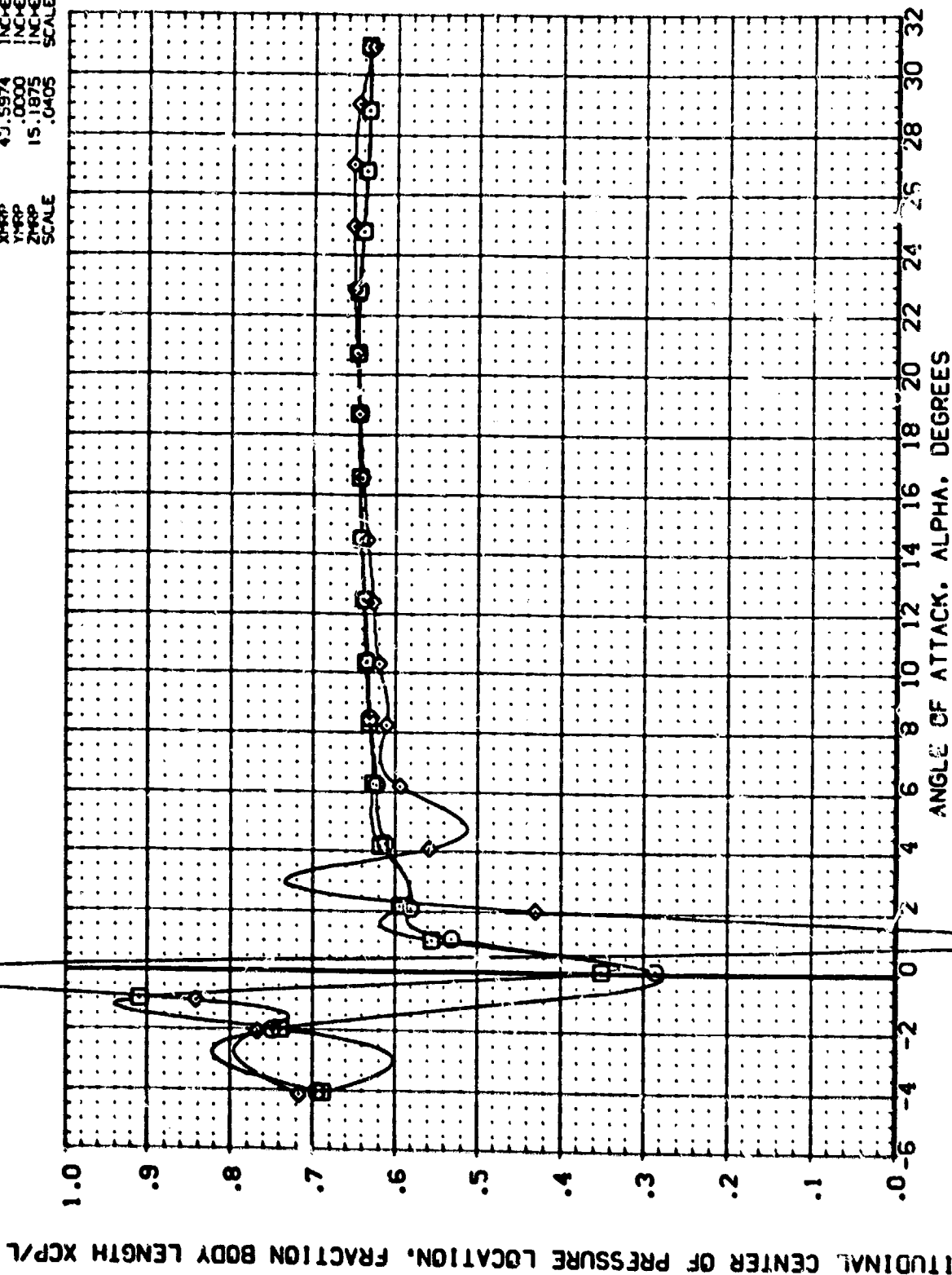


FIG 29 LONGITUDINAL CHARACTERISTICS CLUSTERS OVERWING XCL=440.95) X0 = 1100  
(A)MACH = .20

DATA SET SYMBOL	CONFIGURATION	DESCRIPTION	NACX/L	ELEVON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(ADVO50)	0A62	B26C9	.730	.000	-12.000	.000	SREF 4.4119 SO.FT.
(ADVO53)	0A62	B26C9	.730	.000	-12.000	.000	LREF 19.2299 INCHES
(ADVO01)	0A52	B26C9		.000	-12.000	.000	BREF 37.9359 INCHES
							XMRP 43.5974 INCHES
							YMRP .0000 INCHES
							ZMRP 15.1875 INCHES
							SCALE .0405

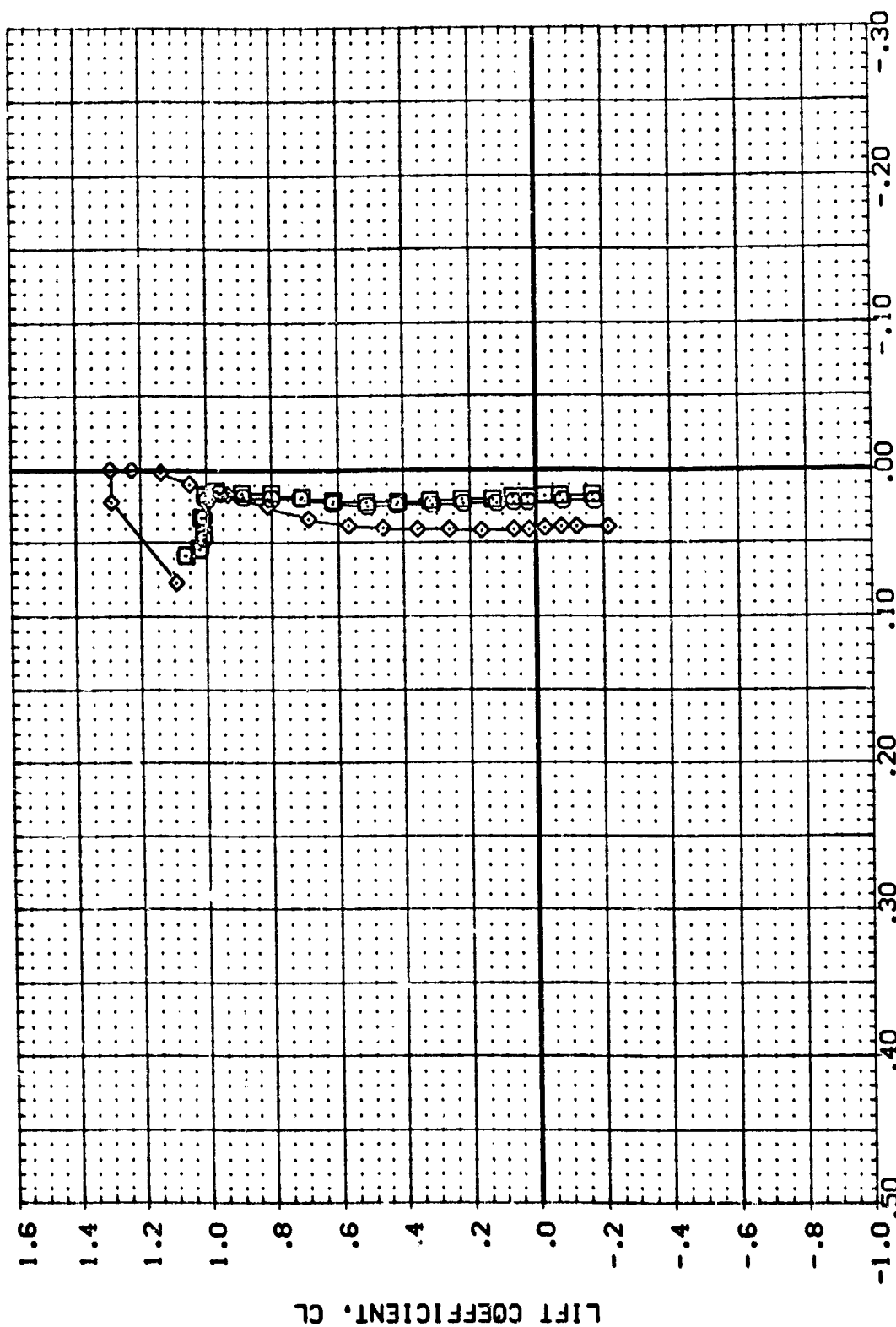


FIG 29 LONGITUDINAL CHARACTERISTICS CLUSTERS OVERWING XCL=440,950 XO = 1100  
 (A)MACH = .20  
 PITCHING MOMENT COEFFICIENT ABOUT FWD CG LIMIT (.65 LB). CLMFWD  
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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NACA/L	ELEVON	BDFLAP	SPDBRK	REFERENCE INFORMATION
(ADV050)	GA62 B26C9 FB/52V116E26VBR5X10	.730	.000	-12.000	.000	SREF 4.4119 SO.FT.
(ADV053)	GA62 B26C9 FB/53V116E26VBR5X10	.730	.000	-12.000	.000	REF 19.2299 INCHES
(ADV001)	GA62 B26C9 FB V116E26VBR5X9		.000	-12.000	.000	BREF 37.9359 INCHES
						XMRP 43.5974 INCHES
						ZMRP .0000 INCHES
						SCALE 15.1875 INCHES

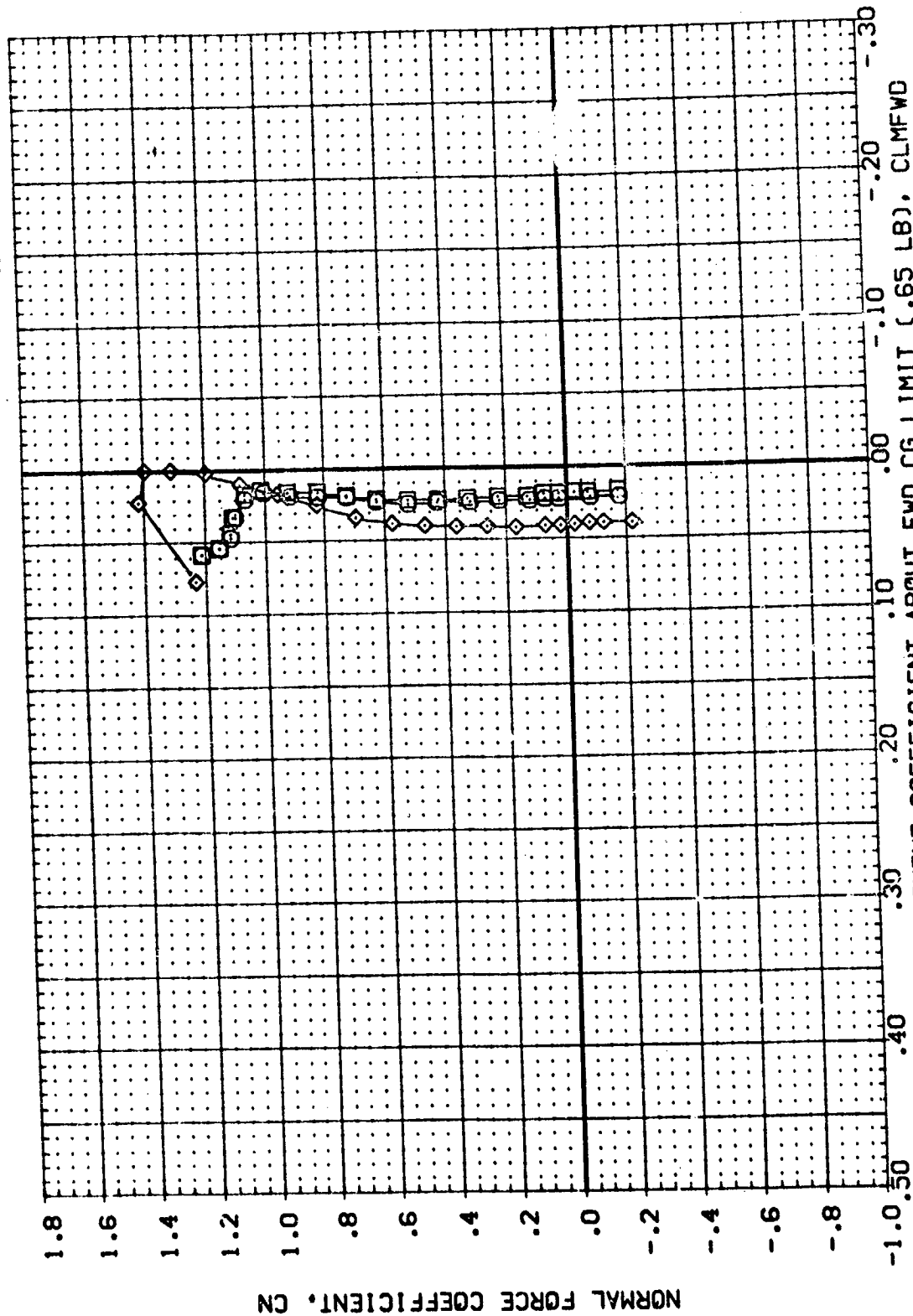
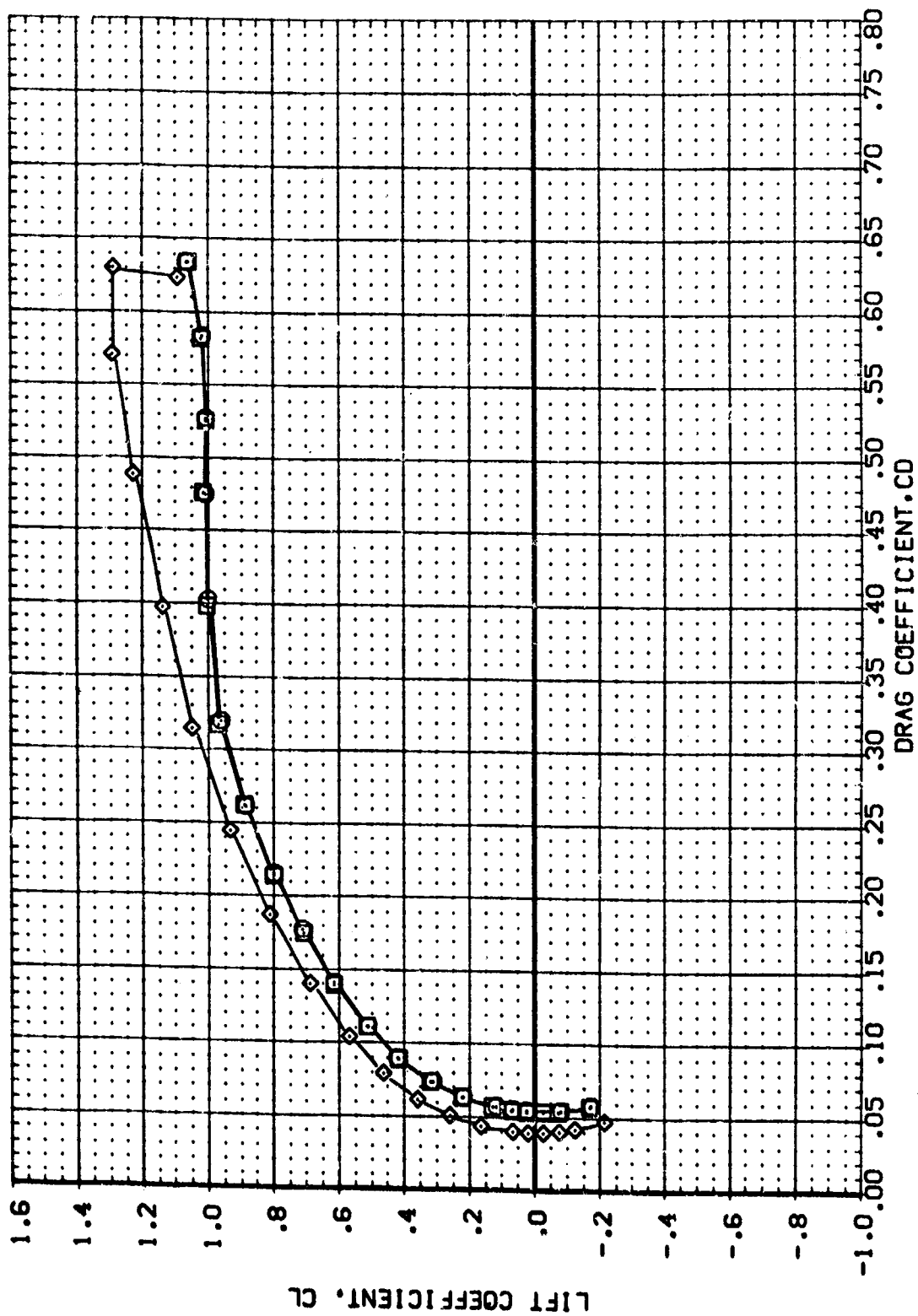
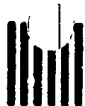


FIG 29 LONGITUDINAL CHARACTERISTICS CLUSTERS OVERWING XCL=440,950 X0 = 1100  
(A)MACH = .20 PAGE 219

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NACA/L	ELEVON	BOFLAP	SPODBK	REFERENCE INFORMATION
(ADVO50)	DA62 B26C9 FBUS2V116E26V85X10	.730	.000	-12.000	.000	SREF 4.4119 50. FT.
(ADVO53)	DA62 B26C9 FBUS3V116E26V85X10	.730	.000	-12.000	.000	LREF 19.2259 INCHES
(ADVO01)	DA62 B26C9 FB V116E26V85X9		.000	-12.000	.000	BREF 37.9359 INCHES
						YMRP 43.5974 INCHES
						ZMRP .0000 INCHES
						SCALE 15.1873 INCHES
						SCALE .0405





DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NACX/L	ELEVON	BDFLAP	SPOBRK	REFERENCE INFORMATION
(CDV050)	0A62 826C9 FB/52V116E26V8R5X10	.730	.000	-12.000	.000	SREF 4.4119 50.FT.
(CDV053)	0A62 826C9 FB/53V116E26V8R5X10	.730	.000	-12.000	.000	LREF 19.2299 INCHES
(CDV001)	0A62 826C9 FB V116E26V8R5X9		.000	-12.000	.000	BREF 37.9359 INCHES
						XMRP 44.3813 INCHES
						YMRP .0000 INCHES
						ZMRP 15.1875 INCHES
						SCALE .0405 INCHES

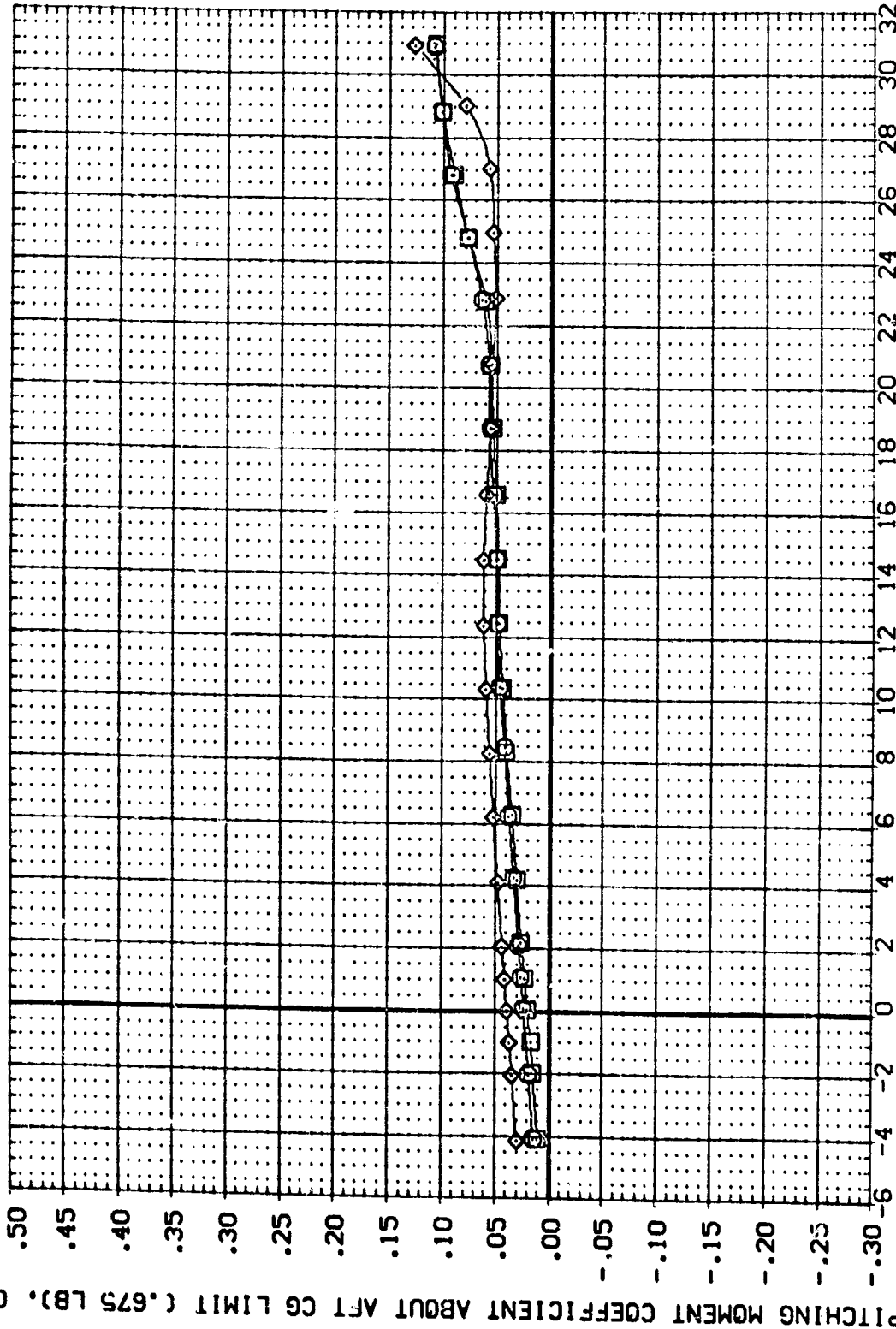


FIG 29 LONGITUDINAL CHARACTERISTICS CLUSTERS OVERWING XCL=440.950 X0 = 1100

(A)MACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	NACX/L	SPDRK	RUDER	REFERENCE INFORMATION
(RDV051)	0A62 B26C9 FB/52W116E26V8FSX10	.000	.730	.000	.000	SREF 4.4119 SO.FT.
(RDV052)	0A62 G26C9 FB/52W116E26V8FSX10	10.000	.730	.000	.000	LREF 19.2299 INCHES
(RDV054)	0A62 B26C9 FB/53W116E26V8FSX10	.000	.730	.000	.000	BREF 37.9359 INCHES
(RDV055)	0A62 B26C9 FB/53W116E26V8FSX10	10.000	.730	.000	.000	XMRP 43.5974 INCHES
(RDV002)	0A62 B26C9 FB V116E26V8FSX9	.000		.000	.000	YMRP .0000 INCHES
(RDV004)	0A62 B26C9 FB V116E26V8FSX9	10.000		.000	.000	ZMRP 15.1875 INCHES
						SCALE .0405

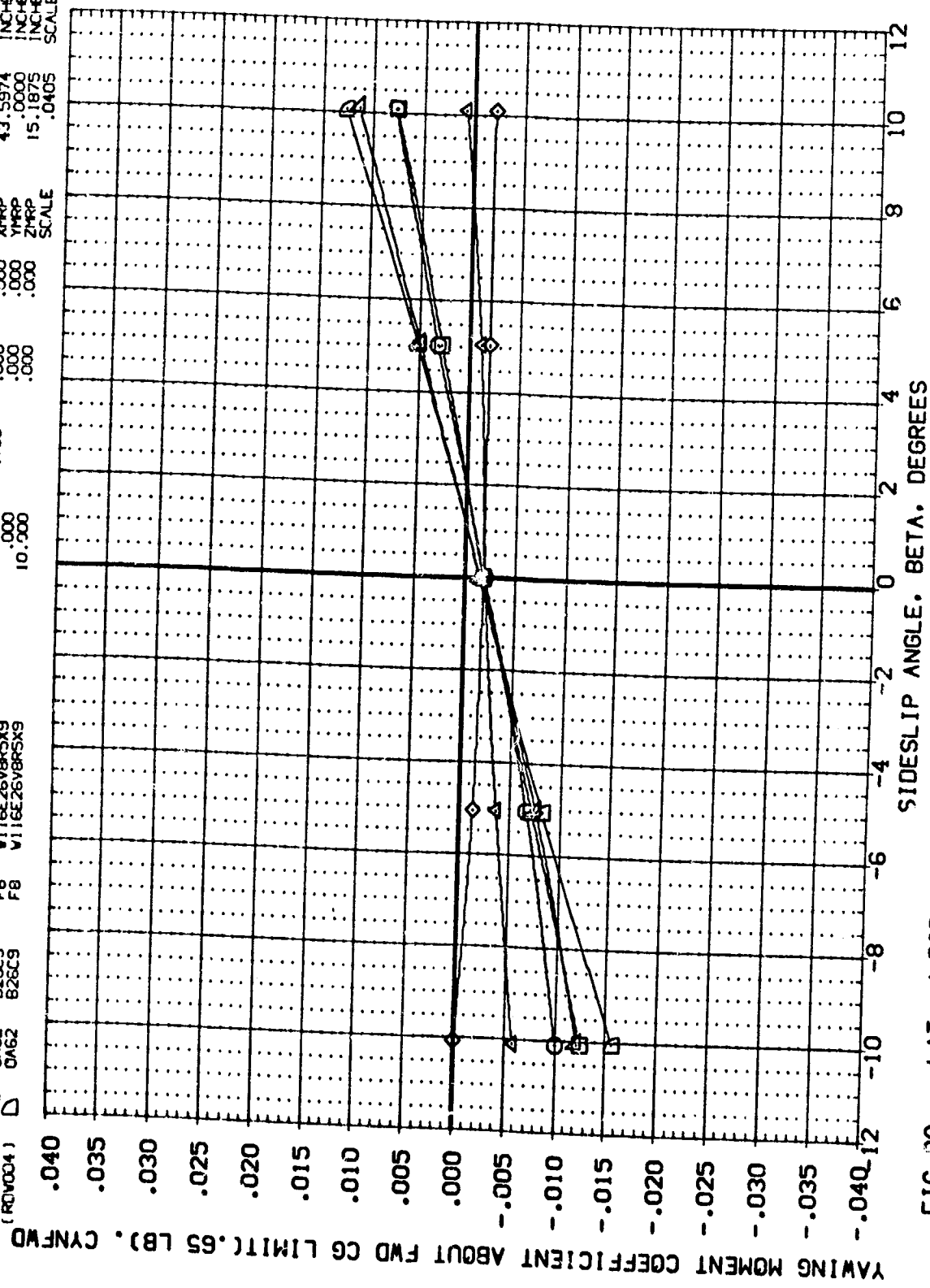


FIG 30 LAT. / DIR. CHARACTERISTICS CLUSTERS OVERWING XCL=440.950 X0 = 1100  
 (A)MACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	NACX/L	SPOBRK	RUDDER	REFERENCE INFORMATION
(RCV051)	0A62 B26C9 FBUS2V116E26V8R5X10	.000	.730	.000	.000	SREF 4.4119 50. FT.
(RCV052)	0A62 B26C9 FBUS2V116E26V8R5X10	10.000	.730	.000	.000	LREF 19.2259 INCHES
(RCV054)	0A62 B26C9 FBUS3V116E26V8R5X10	.000	.730	.000	.000	BREF 37.9359 INCHES
(RCV055)	0A62 B26C9 FBUS3V116E26V8R5X10	10.000	.730	.000	.000	XTRP 43.5974 INCHES
(RCV002)	0A62 B26C9 F8 V116E26V8R5X9	.000		.000	.000	YTRP 15.0000 INCHES
(RCV004)	0A62 B26C9 F8 V116E26V8R5X9	10.000		.000	.000	ZTRP 15.1875 INCHES
						SCALE .0405

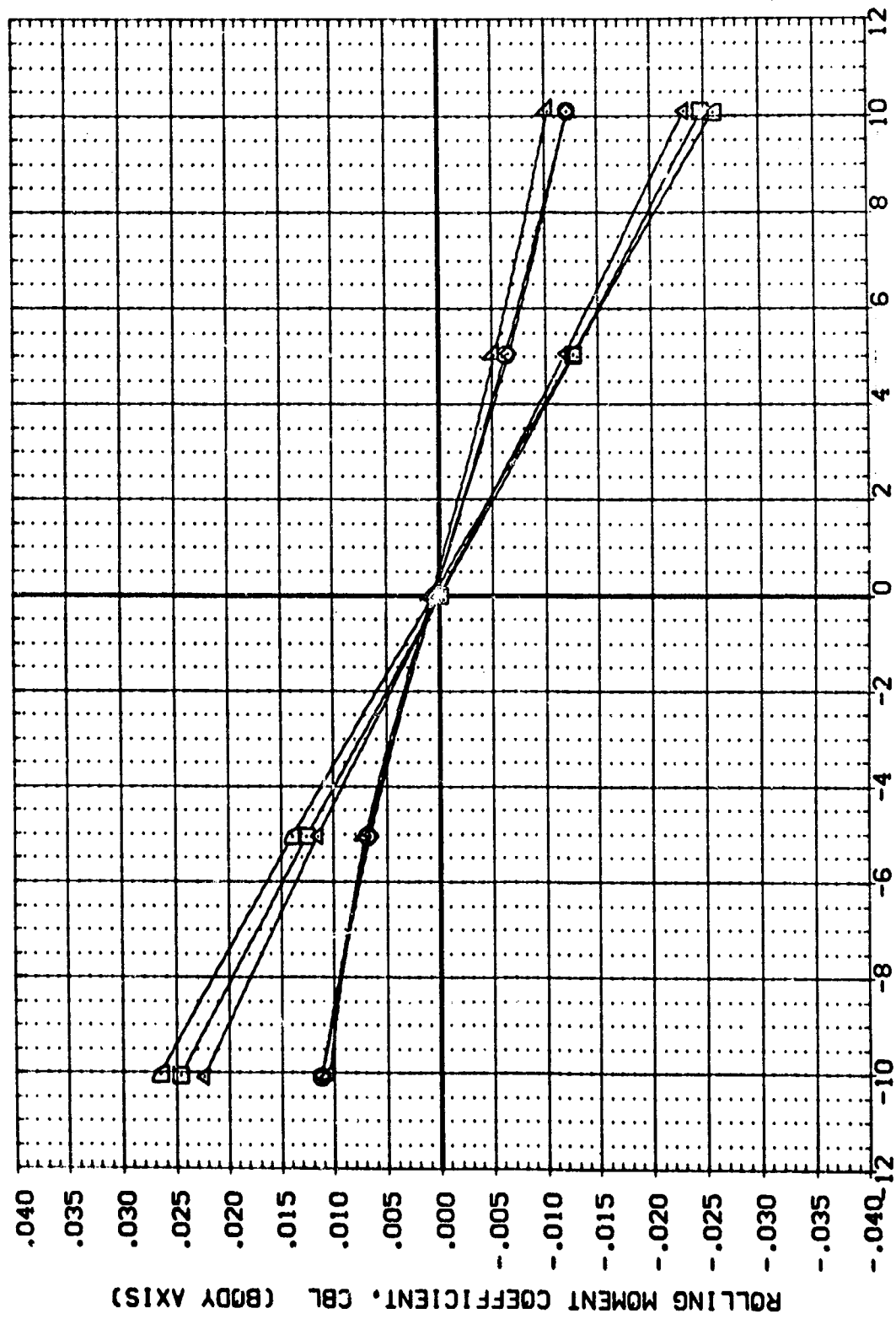
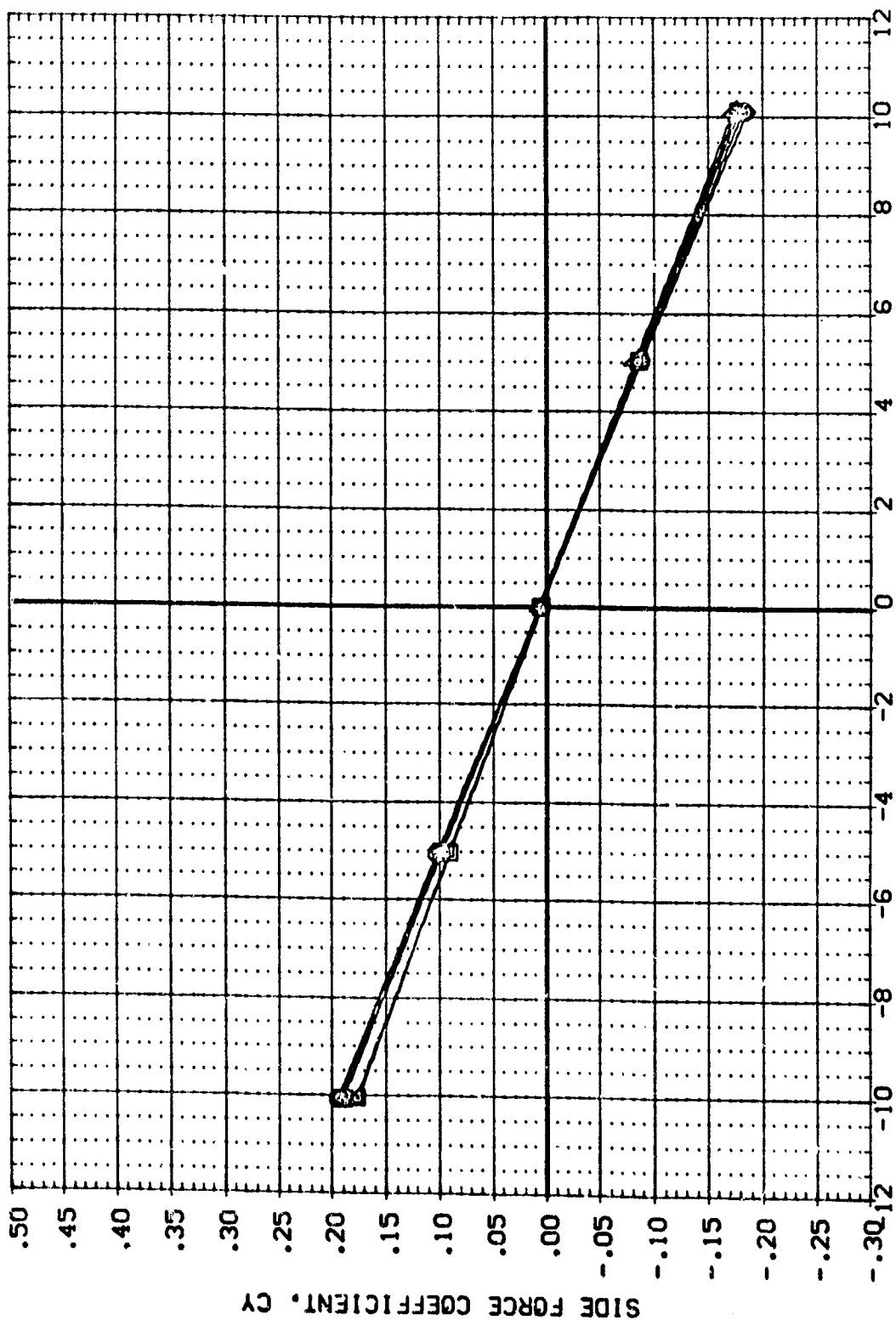


FIG 30 LAT. / DIR. CHARACTERISTICS CLUSTERS OVERWING XCL=440.950 X0 = 1100  
 (A)MACH = .20  
 SIDESLIP ANGLE, BETA, DEGREES  
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DATA SET SYMBOL	CONFIGURATION	DESCRIPTION	ALPHA	NACA/L	SPDRK	RUDDER	REFERENCE INFORMATION
(RCV051)	DA62	B26C9	0.00	.730	.000	.000	SREF 4.4119 50. FT.
(RCV052)	DA62	B26C9	10.000	.730	.000	.000	LREF 19.2299 INCHES
(RCV054)	DA62	B26C9	10.000	.730	.000	.000	BREF 37.9359 INCHES
(RCV055)	DA62	B26C9	10.000	.730	.000	.000	XMRP 43.5974 INCHES
(RCV002)	DA62	B26C9	10.000	.730	.000	.000	YMRP .0000 INCHES
(RCV001)	DA62	B26C9	10.000	.730	.000	.000	ZMRP 15.1875 INCHES
							SCALE .0405



SIDESLIP ANGLE, BETA, DEGREES

FIG 30 LAT. / DIR. CHARACTERISTICS CLUSTERS OVERWING XCL=440.950 XO = 1100  
 (A)MACH = .20



YAWING MOMENT COEFFICIENT DERIVATIVE WITH BETA, CYMBET, PER DEGREE

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NACAL	ELEVON	EDFLAP	SPDRBK	REFERENCE INFORMATION
(EDV051)	0.62 B26C9	.730	.000	-12.000	.000	SREF 4.4119 SO.FT.
(EDV054)	0A62 B26C9	.730	.000	-12.000	.000	LREF 19.2299 INCHES
(EDV002)	0A62 B26C9		.000	-12.000	.000	BREF 37.9359 INCHES
						XMRP 43.5974 INCHES
						YMRP .0000 INCHES
						ZMRP 15.1875 INCHES
						SCALE .0405

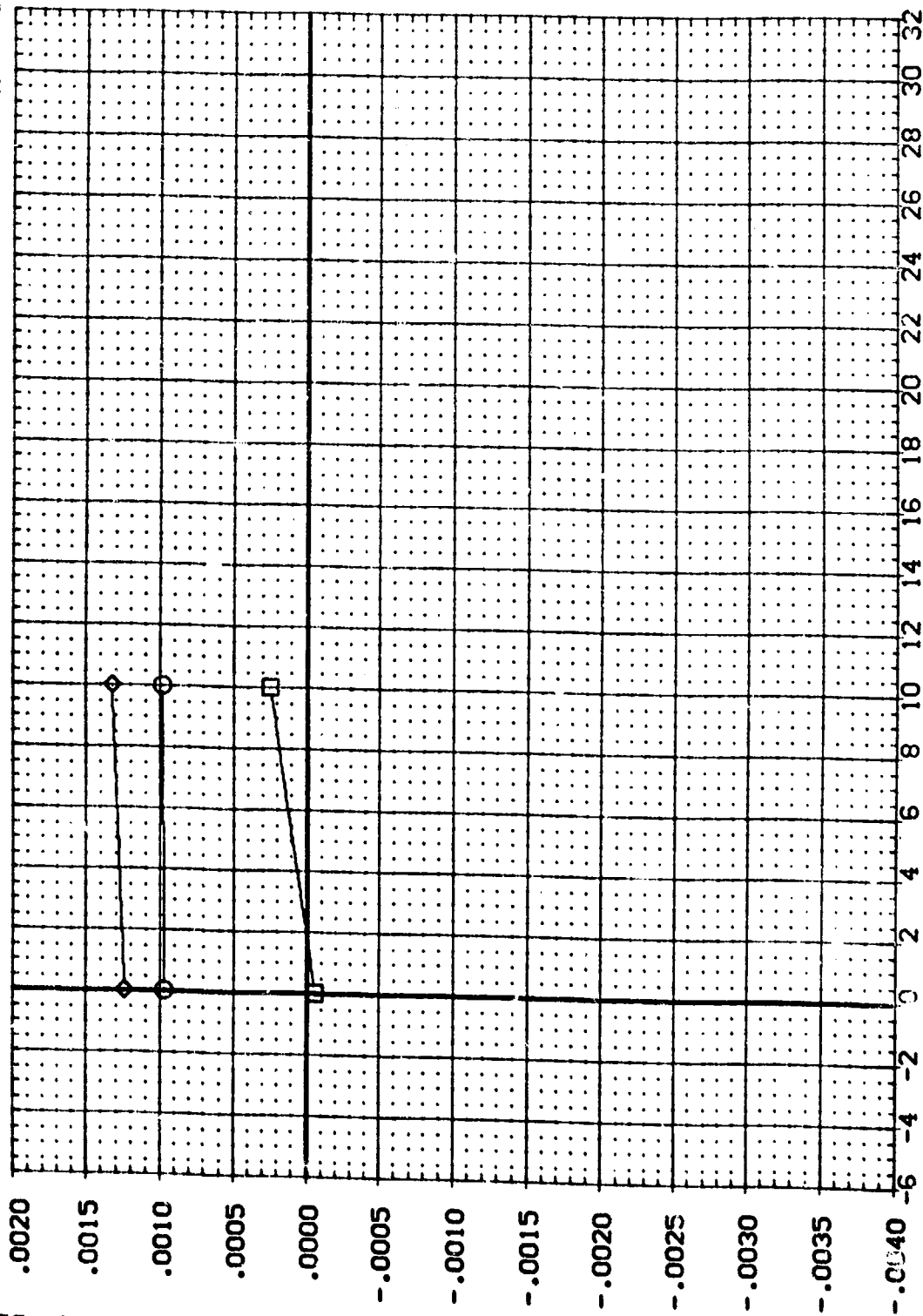


FIG 30 LAT. / DIR. CHARACTERISTICS CLUSTERS OVERWING XCL=440.950 X0 = 1100

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(EDV051)	DA62	B26C9	F8J52M116E26V8K5X10
(EDV054)	DA62	B26C9	F8J53M116E26V8K5X10
(EDV002)	DA62	B26C9	F8 V116E26V8K5X9

NACVAL ELEVON BDFLAP SPDBRK

.730	.000	-12.000	.000
.730	.000	-12.000	.000
	.000	-12.000	.000

REFERENCE INFORMATION

SREF	4.4119	50.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
YMRP	43.5974	INCHES
ZMRP	.0000	INCHES
SCALE	15.1875	INCHES
	.0405	SCALE

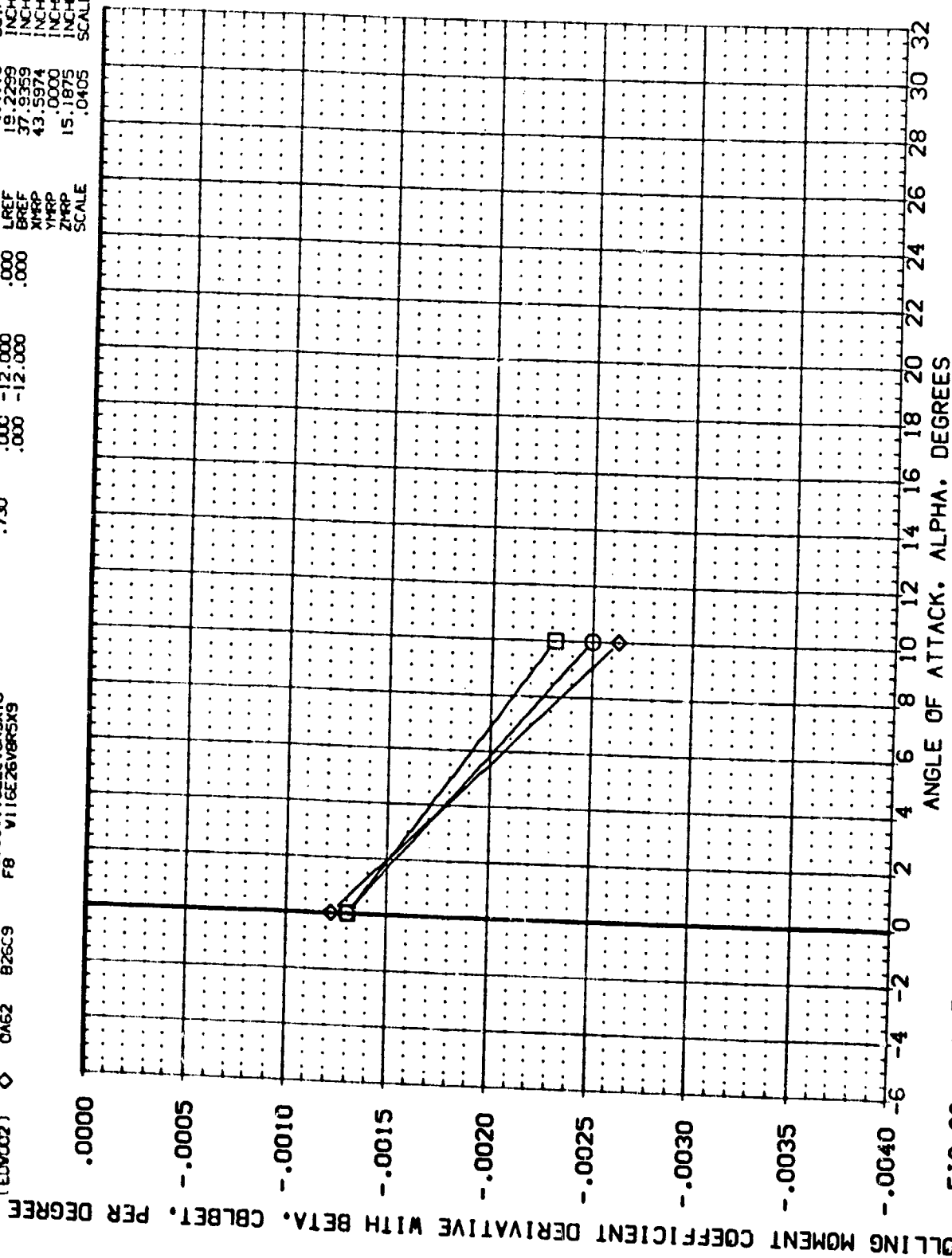


FIG 30 LAT. / DIR. CHARACTERISTICS CLUSTERS OVERWING XCL=440,950 X0 = 1100

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NACK/L	ELEVON	BOFLAP	SPDRK	REFERENCE INFORMATION
(EDV051)	0A62 B26C9 FB/52V116E26V8R5X10	.730	.000	-12.000	.000	SREF 4.4119 50.FT.
(EDV054)	0A62 B26C9 FB/53V116E26V8R5X10	.730	.000	-12.000	.000	LREF 19.2299 INCHES
(EDV002)	0A62 B26C9 FB V116E26V8R5X9		.000	-12.000	.000	BREF 37.9359 INCHES
						XMRP 43.5974 INCHES
						YMRP .0000 INCHES
						ZMRP 15.1875 INCHES
						SCALE .0405

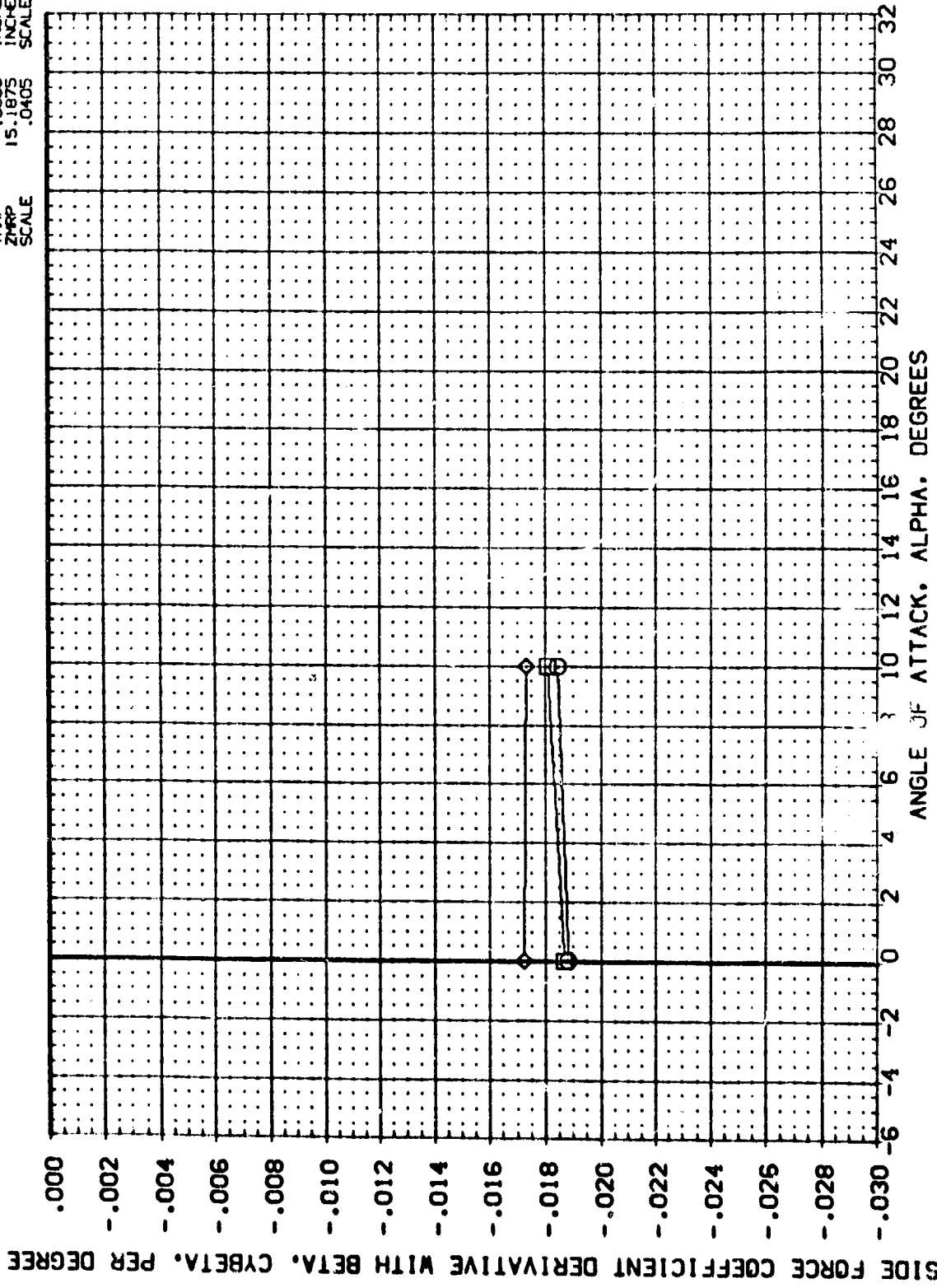


FIG 30 LAT. / DIR. CHARACTERISTICS CLUSTERS OVERWING XCL=440.950 X0 = 1:00

# DATA SET SYMBOL CONFIGURATION DESCRIPTION

(AD053) FBUS6V116E26VBR5X10  
 (AD056) FBUS6V116E26VBR5X10  
 (AD001) FB V116E26VBR5X9

QAG2 B26C9  
 QAG2 B26C9  
 QAG2 B26C9



NACA/L .000  
 .730

ELEVON .000  
 .000  
 .000

BOFLAP .000  
 .000  
 .000

REFERENCE INFORMATION  
 SREF 4.1119 SO.FT  
 LREF 19.2299 INCHES  
 BREF 37.9359 INCHES  
 XMRP 43.5974 INCHES  
 YMRP .0000 INCHES  
 ZMRP 15.1875 INCHES  
 SCALE .0405

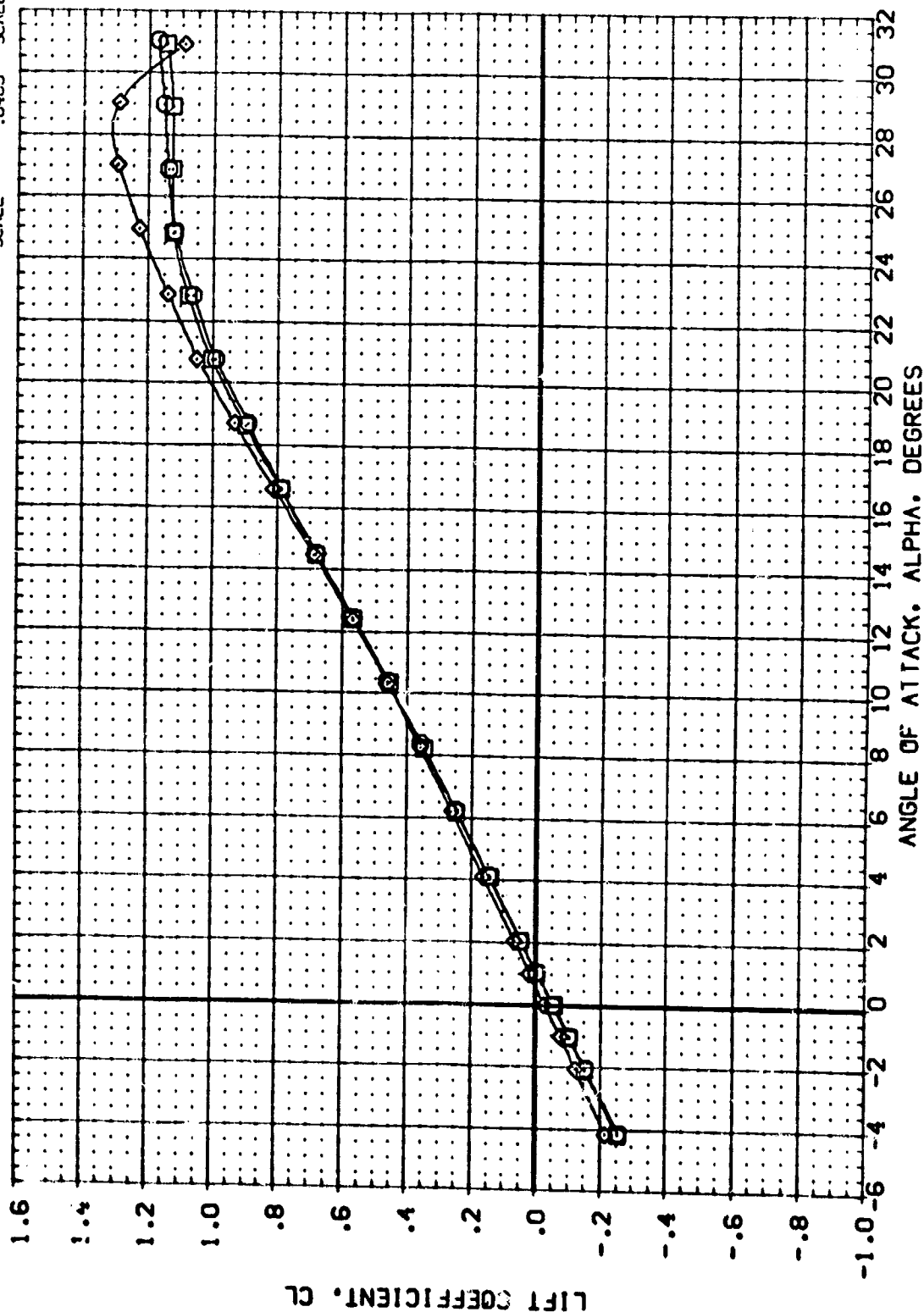


FIG 31 LONGITUDINAL CHARACTERISTICS 6 SINGLE NACELLES 6 UNDER FLUSH MOUNT  
 (A)MACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NACX/L	ELEVON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(AD0052)	0A52 B26C9 FBUS6V11EE26V8R5X10	.000	.000	-12.000	.000	SREF 4.4119 SO.FT.
(AD0066)	0A52 B26C9 FBUS6V11EE26V8R5X10	.730	.000	-12.000	.000	LREF 19.2259 INCHES
(AD0001)	0A52 B26C9 FBUS6V11EE26V8R5X9		.000	-12.000	.000	BREF 37.9359 INCHES
						XMRP 43.5974 INCHES
						ZMRP .0000 INCHES
						SCALE 15.1875 INCHES
						.0405

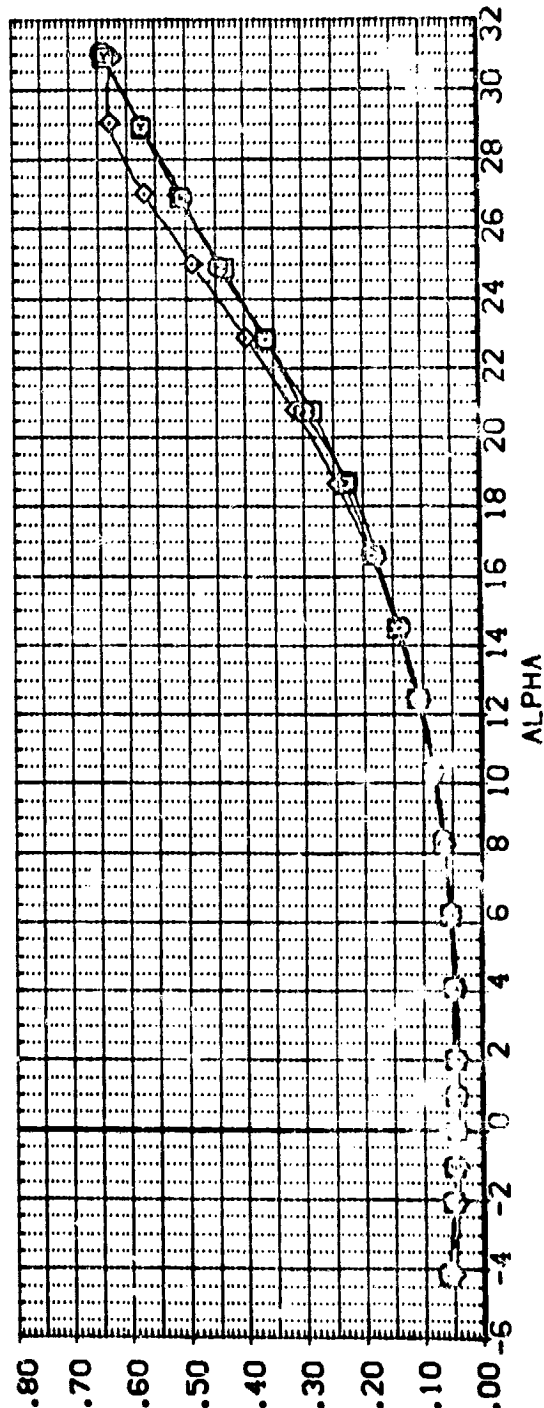
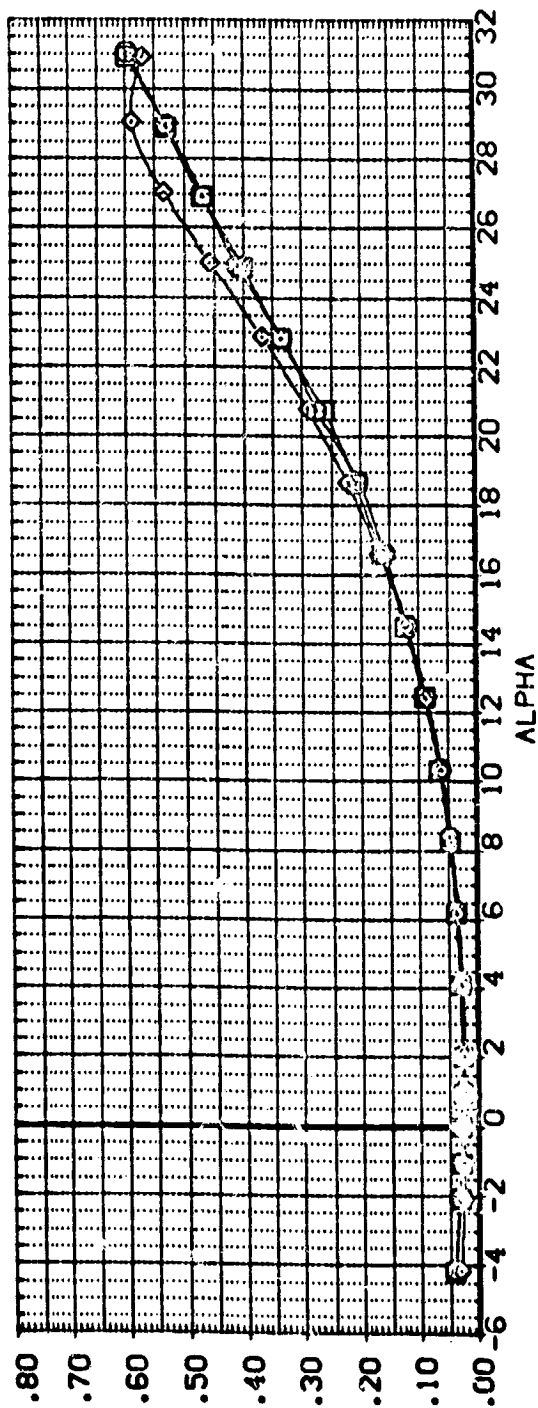


FIG 31 LONGITUDINAL CHARACTERISTICS 6 SINGLE NACELLES 6 UNDER FLUSH MOUNT

(A)MACH = .20

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (AD0003) FB/56V11GE26V85X10  
 (AD0006) FB/56V11GE26V85X10  
 (AD0001) FB V11GE26V85X9

NAC/L ELEVON BOFLAP SPOBRK REFERENCE INFORMATION  
 .000 .000 .000 .000 4.4119 50.00  
 .730 .000 -12.000 .000 19.2288 INCHES  
 .000 .000 -12.000 .000 37.9359 INCHES  
 .000 .000 -12.000 .000 43.5574 INCHES  
 .000 .000 .000 .000 15.000 INCHES  
 .000 .000 .000 .000 15.1875 INCHES  
 .000 .000 .000 .000 .0405 SCALE

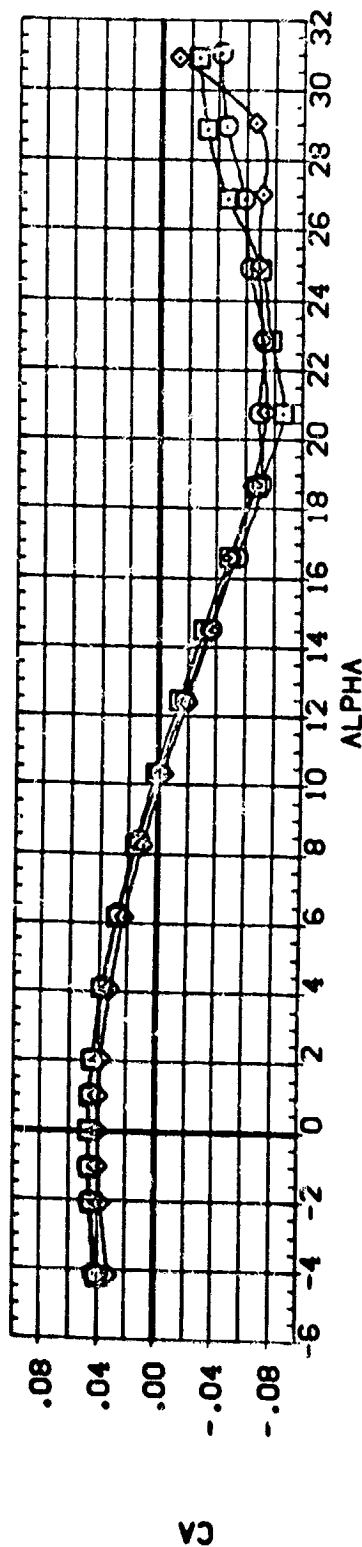
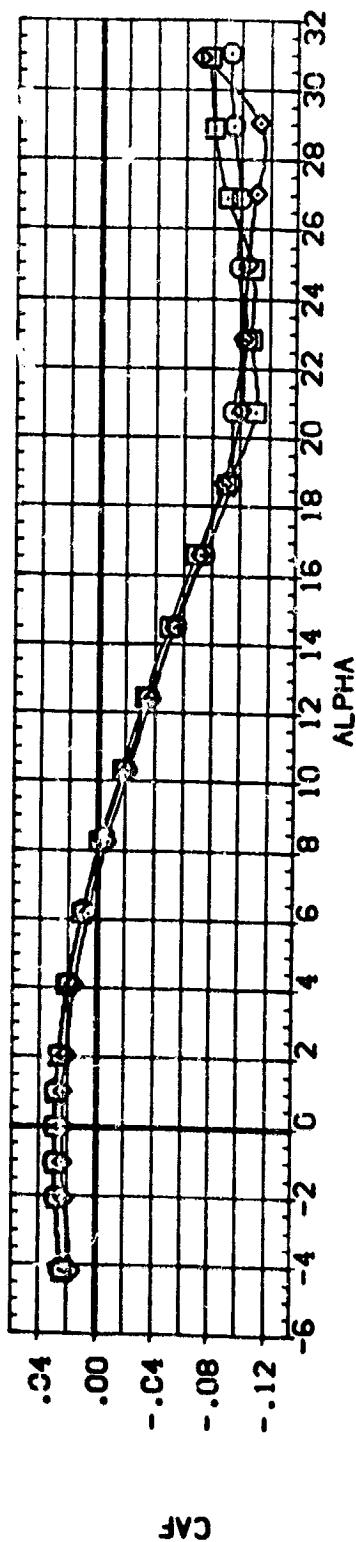
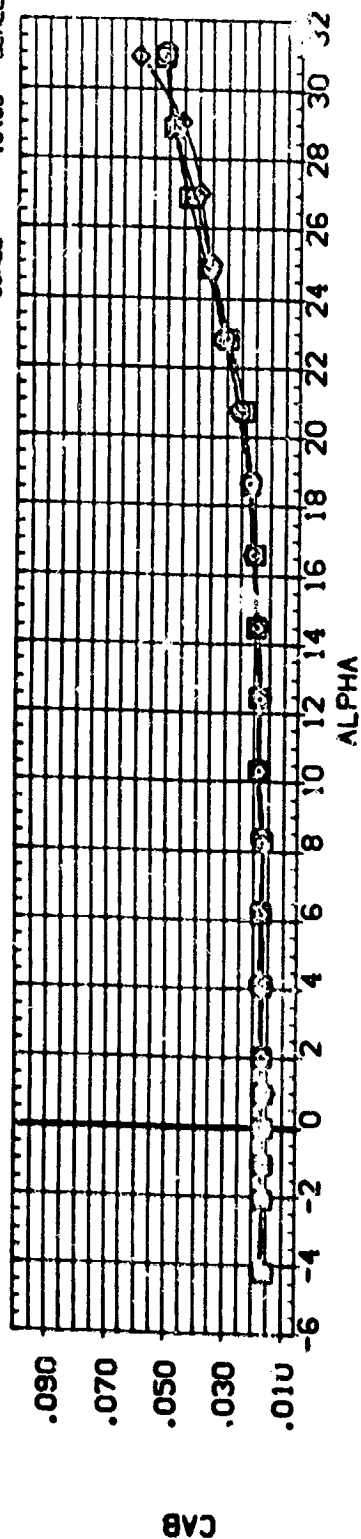


FIG 31 LONGITUDINAL CHARACTERISTICS 6 SINGLE NACELLES 6 UNDER FLUSH MOUNT  
 (A)MACH = .20



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NACVAL	ELEVON	W/LAP	SPOBRK	REFERENCE INFORMATION
(AD003)	0A62 B26C9	.000	.000	-12.000	.000	SREF 4.4119 SO.FT.
(AD055)	0A62 B26C9	.730	.000	-12.000	.000	LREF 19.2299 INCHES
(AD001)	0A62 B26C9		.000	-12.000	.000	BREF 37.9359 INCHES
						XTRP 43.5974 INCHES
						YTRP .0000 INCHES
						ZTRP 15.1875 INCHES
						SCALE .0405

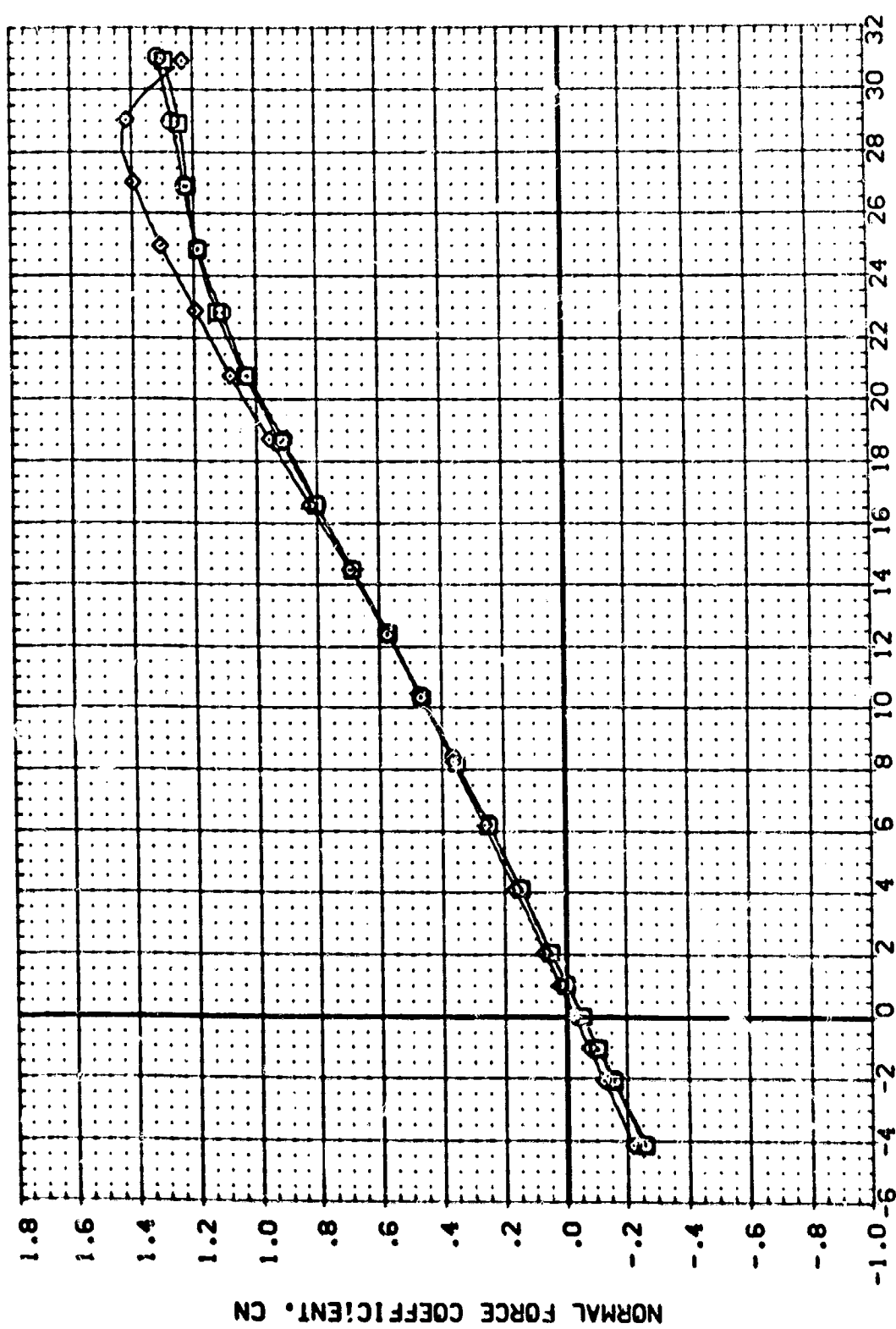


FIG 31 LONGITUDINAL CHARACTERISTICS 6 SINGLE NACELLES 6 UNDER FLUSH MOUNT  
(A)MACH = .20  
PAGE 231

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (ADV063) 0A62 B26C9 FBUS56V116E26V8R5X10  
 (ADV066) 0A62 B26C9 FBUS56V116E26V8R5X10  
 (ADV001) 0A62 B26C9 FB V116E26V8R5X9

NACA/L ELEVON BDFLAP SPOBRK REFERENCE INFORMATION  
 .000 .000 .000 SREF 4.4119 SQ.FT.  
 .730 .000 -12.000 LREF 19.2299 INCHES  
 .000 .000 -12.000 BREF 37.9359 INCHES  
 .000 .000 -12.000 XMRP 43.5974 INCHES  
 ZMRP 15.1875 INCHES  
 SCALE .0405 INCHES

PITCHING MOMENT COEFFICIENT ABOUT FWD CG LIMIT (.65 LB). CLMFW

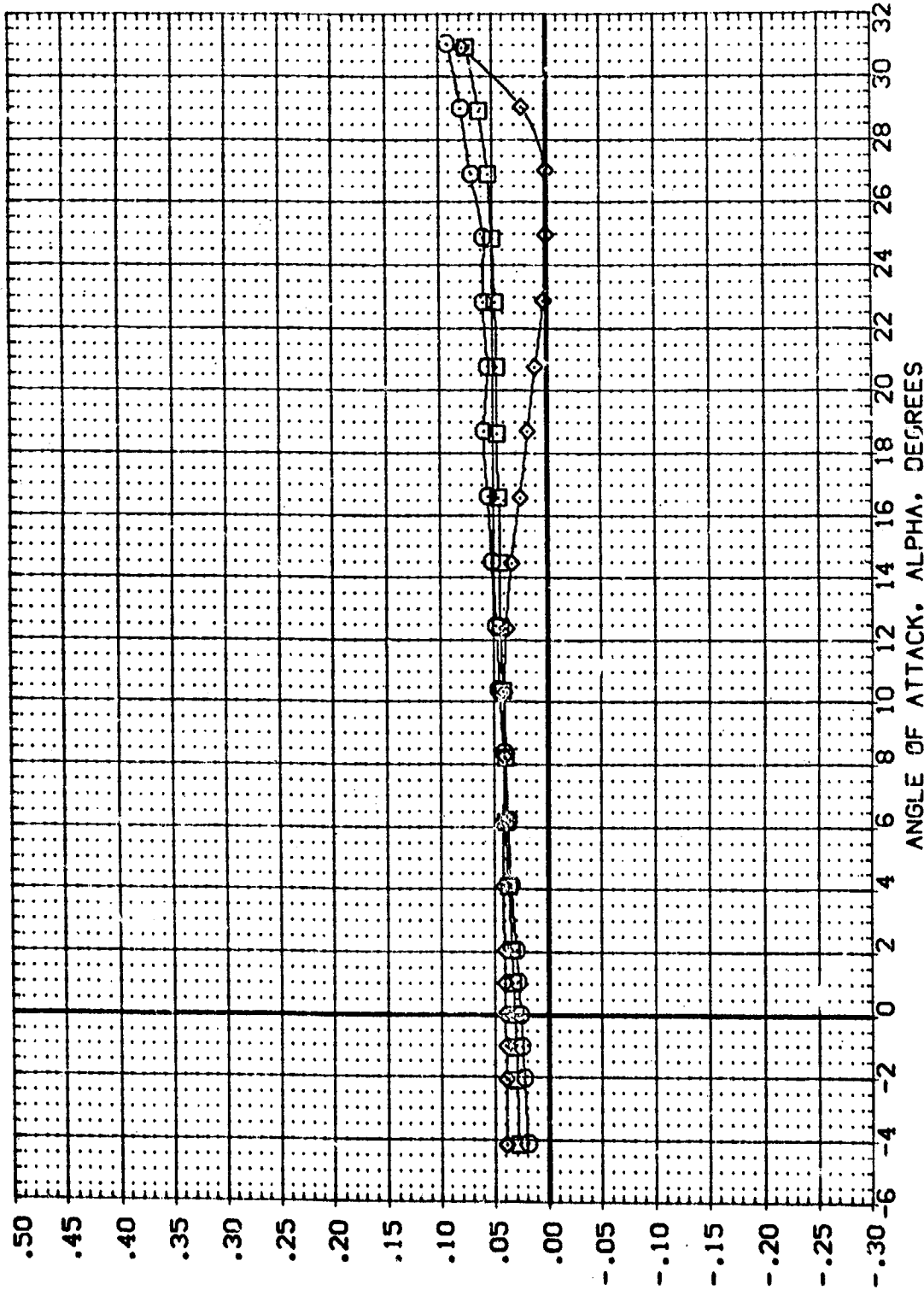


FIG 31 LONGITUDINAL CHARACTERISTICS 6 SINGLE NACELLES 6 UNDER FLUSH MOUNT

(A)MACH = .20 PAGE 232



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(ADVOG3)	0A62	B26C9	F8J56V116E26V85X10
(ADVOG6)	0A62	B26C9	F8J56V116E26V85X10
(ADVOG1)	0A62	B26C9	F8 V116E26V85X9

NACA/L ELEVON BDFLAP SPOBRK

0.00	.000	-12.000	.000
.730	.000	-12.000	.000

REFERENCE INFORMATION

SREF	4.4119	50. FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
YMRP	43.5974	INCHES
ZMRP	15.1875	INCHES
SCALE	.0405	

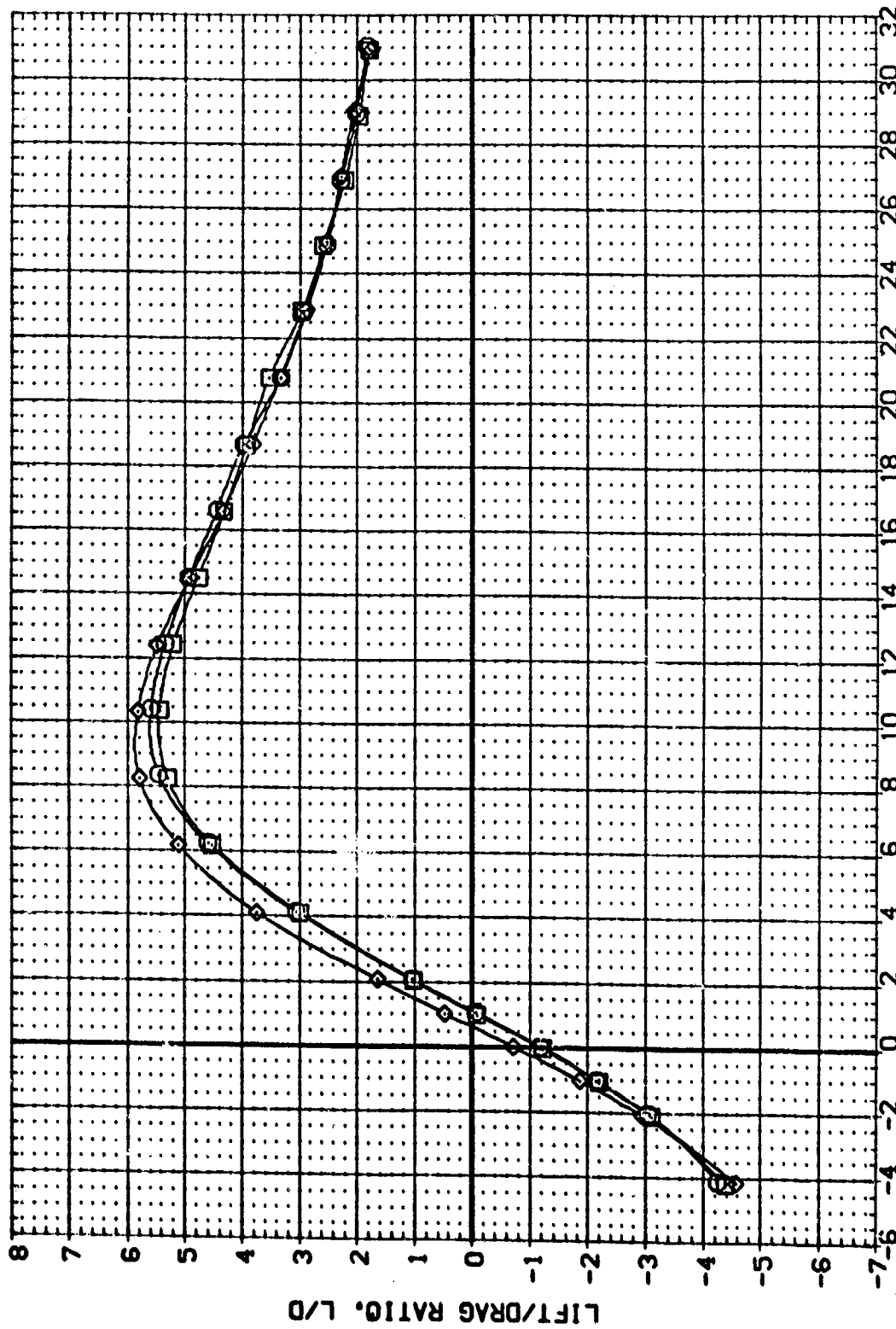
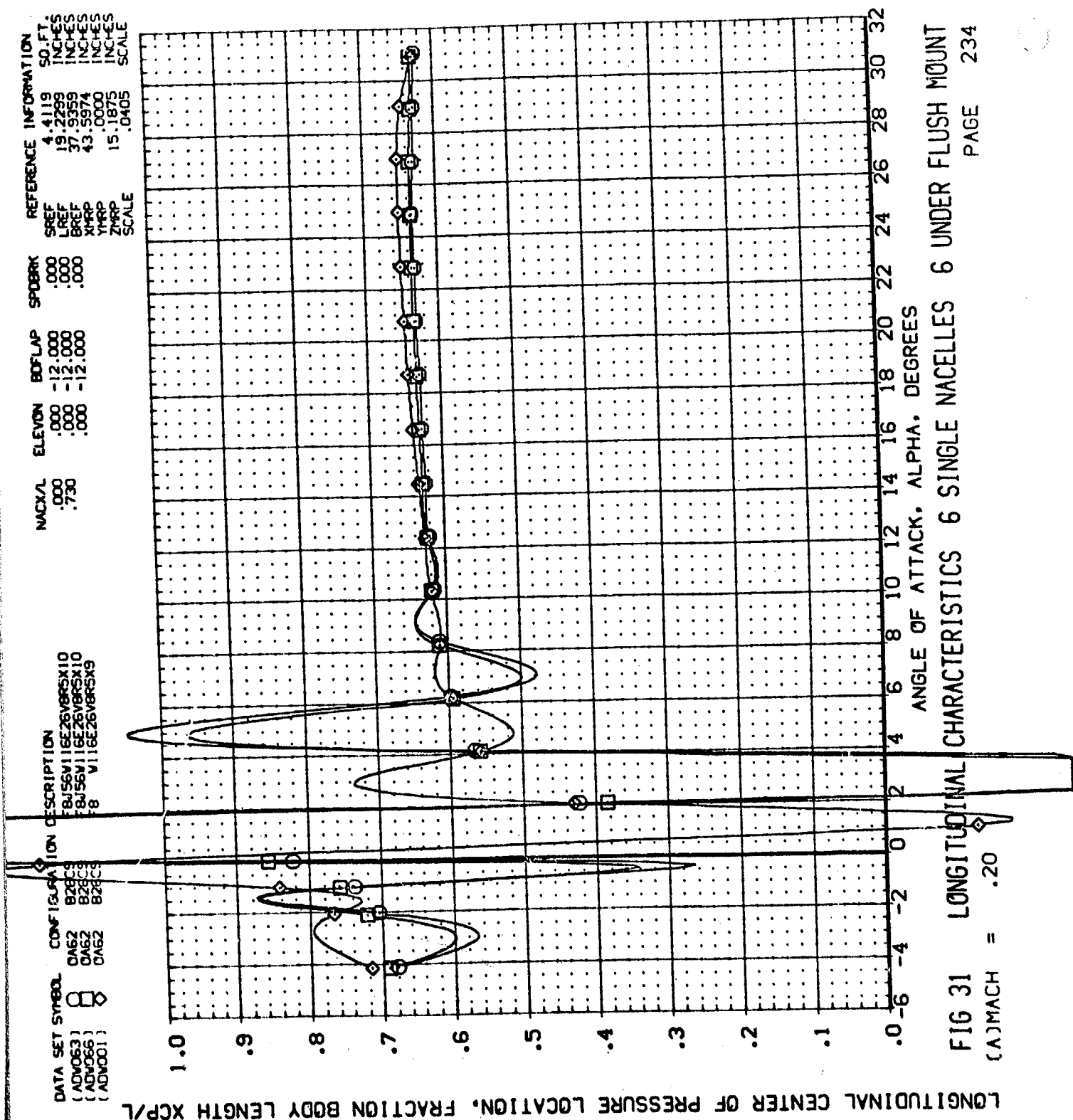


FIG 31 LONGITUDINAL CHARACTERISTICS 6 SINGLE NACELLES 6 UNDER FLUSH MOUNT  
 (A)MACH = .20



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NACA/L	ELEVON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(ADV063)	DAG2 B26C9 FB/56V116E26V85X10	.000	.000	-12.000	.000	SREF 4.4119 SO.FT.
(ADV066)	DAG2 B26C9 FB/56V116E26V85X10	.730	.000	-12.000	.000	LREF 19.2299 INCHES
(ADV001)	DAG2 B26C9 FB V116E26V85X9		.000	-12.000	.000	BREF 37.9359 INCHES
						XMRP 43.5974 INCHES
						YMRP 15.1875 INCHES
						ZMRP .0405 INCHES
						SCALE

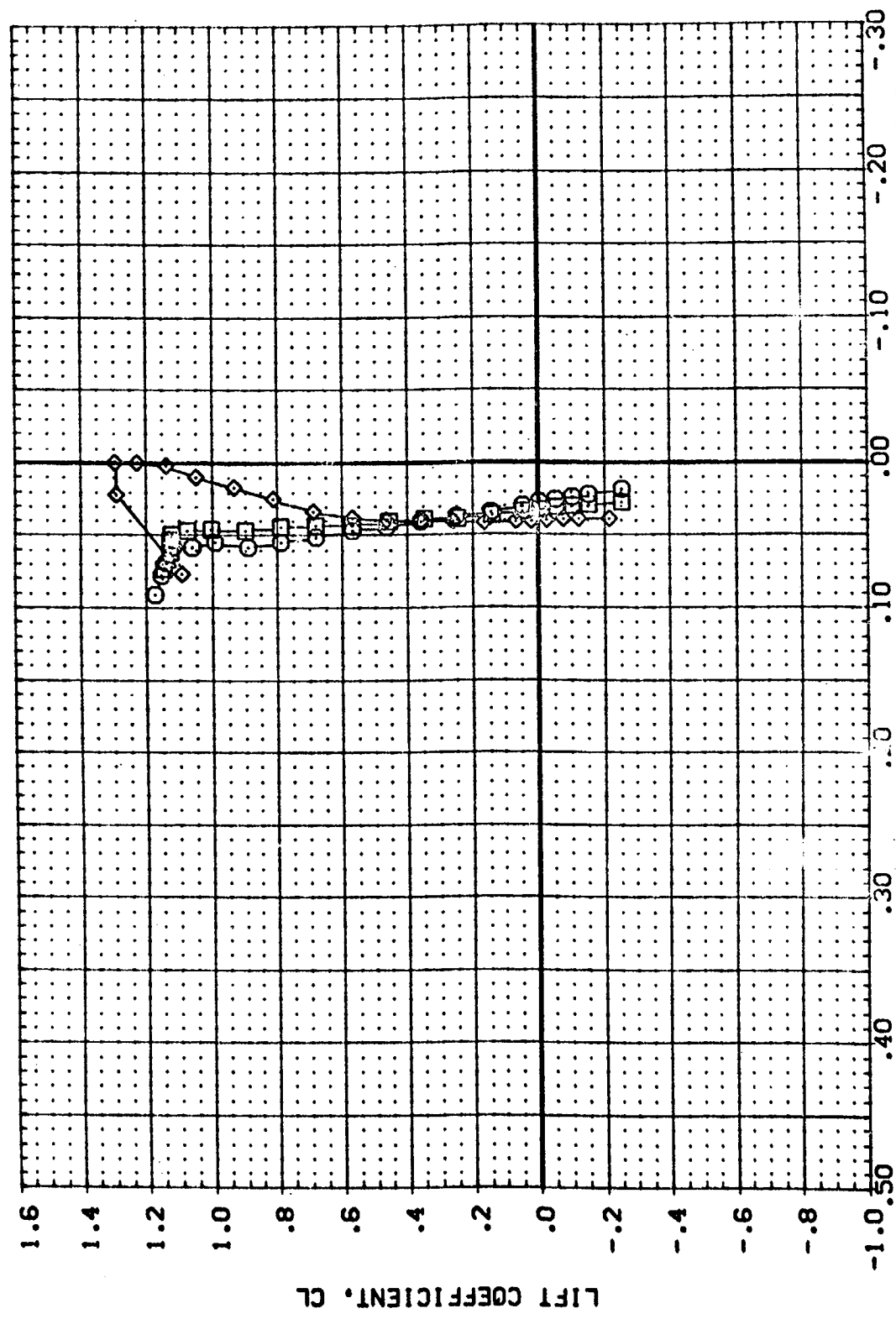


FIG 31 LONGITUDINAL CHARACTERISTICS 6 SINGLE NACELLES 6 UNDER FLUSH MOUNT  
 (A)MACH = .20  
 PITCHING MOMENT COEFFICIENT ABOUT FWD CG LIMIT (.65 LB). CLMFWO  
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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NACX/L	ELEVON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(ADW063)	0A62 B26C9 FB156V116E26VBR5X10	.000	.000	-12.000	.000	SREF 4.4119 SO.FT.
(ADW066)	0A62 B26C9 FB156V116E26VBR5X10	.730	.000	-12.000	.000	LREF 19.2259 INCHES
(ADW001)	0A62 B26C9 FB156V116E26VBR5X9		.000	-12.000	.000	BREF 37.9359 INCHES
						XMRP 43.5974 INCHES
						YMRP .0000 INCHES
						ZMRP 15.1875 INCHES
						SCALE .0405 SCALE

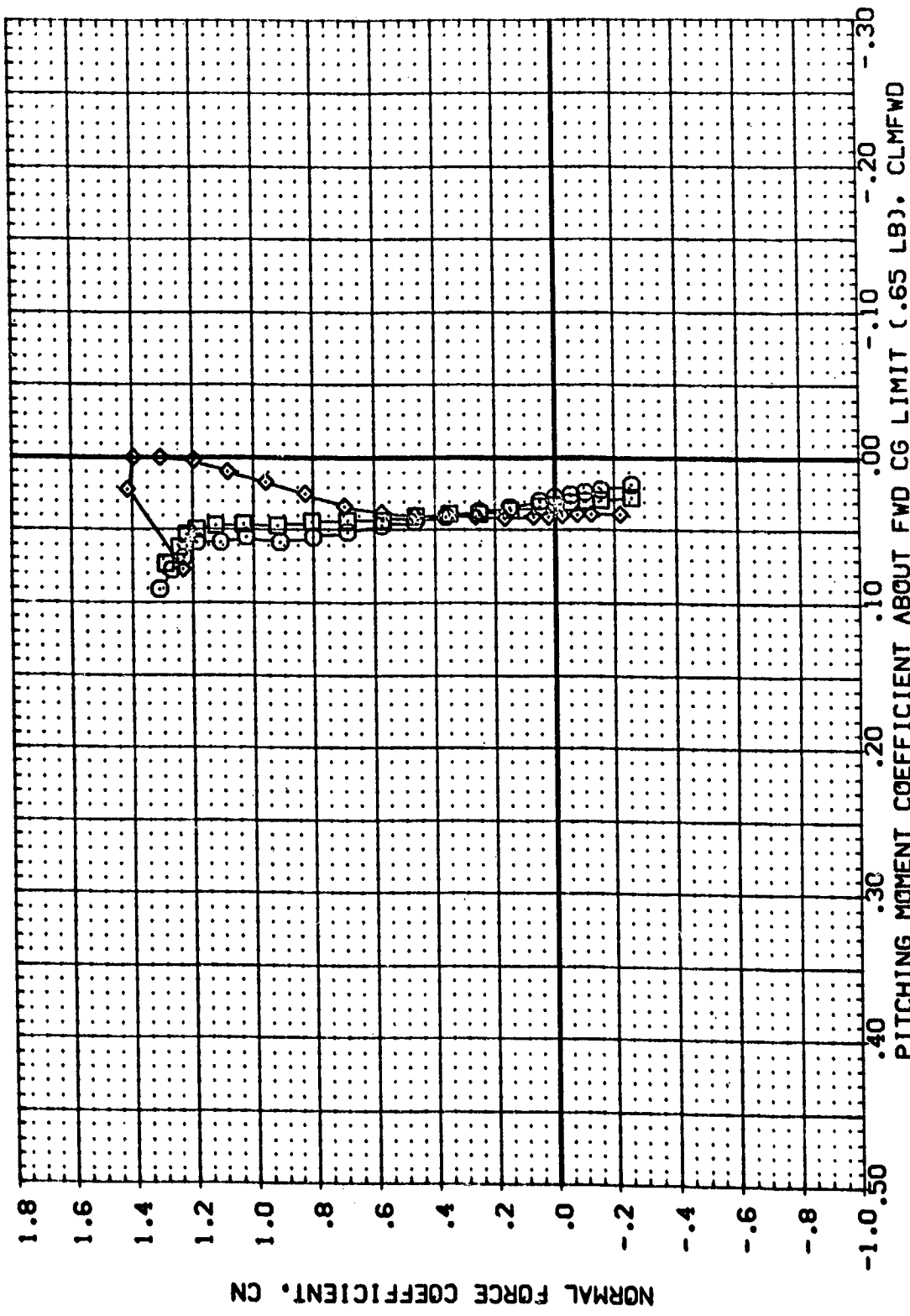


FIG 31 LONGITUDINAL CHARACTERISTICS 6 SINGLE NACELLES 6 UNDER FLUSH MOUNT  
 (A)MACH = .20  
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DATA SET SYMBOL      CONFIGURATION DESCRIPTION

(ADW053)      CA62    B26C9    FBJS6V116E26V8FSX10

(ADW056)      CA62    B26C9    FBJS6V116E26V8FSX10

(ADW001)      CA62    B26C9    FBJS6V116E26V8FSX9

NACXL    ELEVON    BOFLAP    SPOBRK

.000    .000    -12.000    .000

.730    .000    -12.000    .000

REFERENCE INFORMATION

SREF    4.4119    SO.FT.    INCHES

LREF    19.2299    INCHES

BREF    37.9359    INCHES

XTRP    43.5974    INCHES

YTRP    0.0000    INCHES

ZTRP    15.1875    INCHES

SCALE    .0405    SCALE

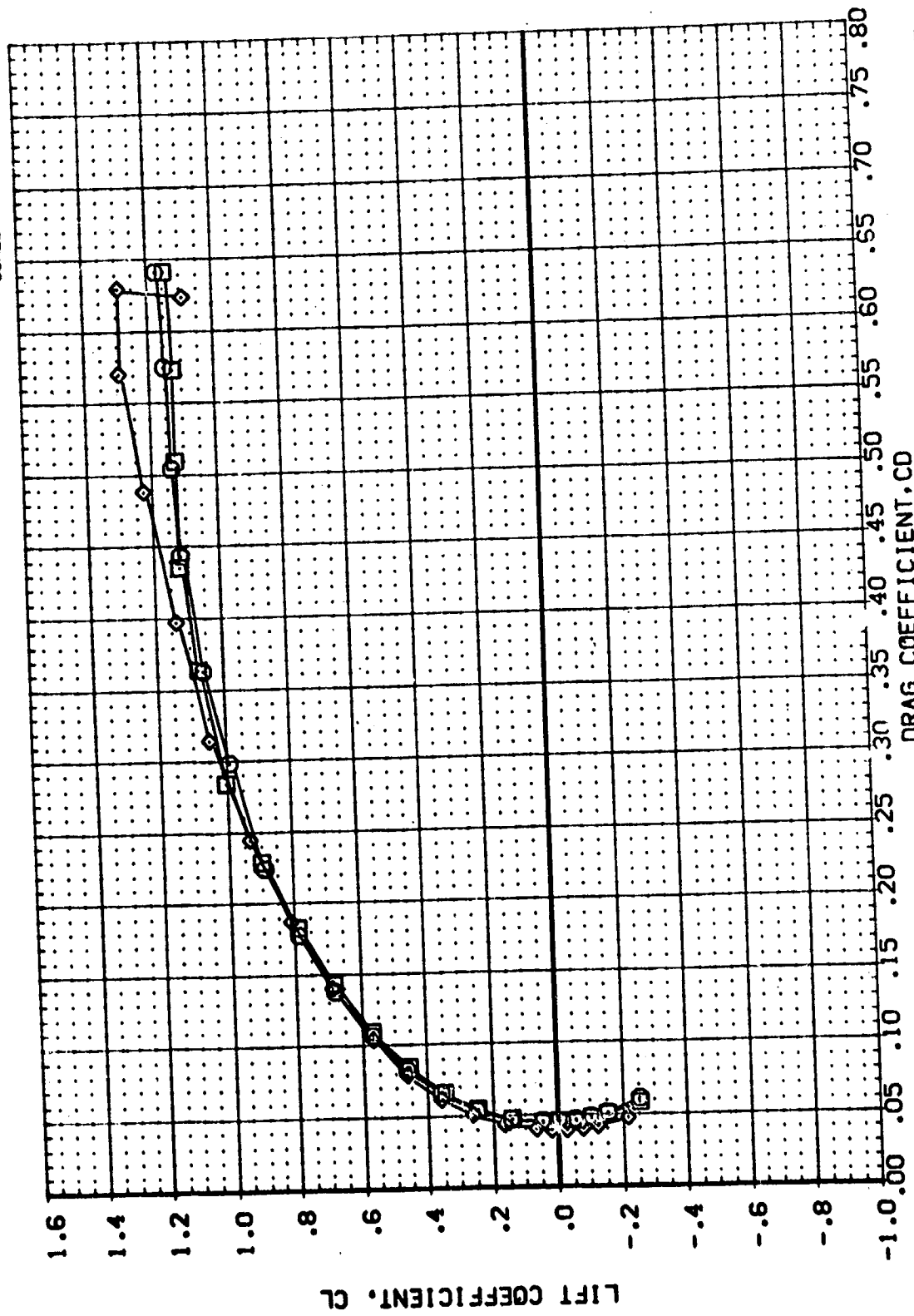


FIG 31 LONGITUDINAL CHARACTERISTICS 6 SINGLE NACELLES 6 UNDER FLUSH MOUNT

(A)MACH = .20

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DATA SET SYMBOL  
(CDV063)  
(CDV065)  
(CDV001)

CONFIGURATION DESCRIPTION

QAG2 B26C9 F8J56V116E26V8RSX10  
QAG2 B26C9 F8J56V116E26V8RSX10  
QAG2 B26C9 F8 V116E26V8RSX9

SPDRK

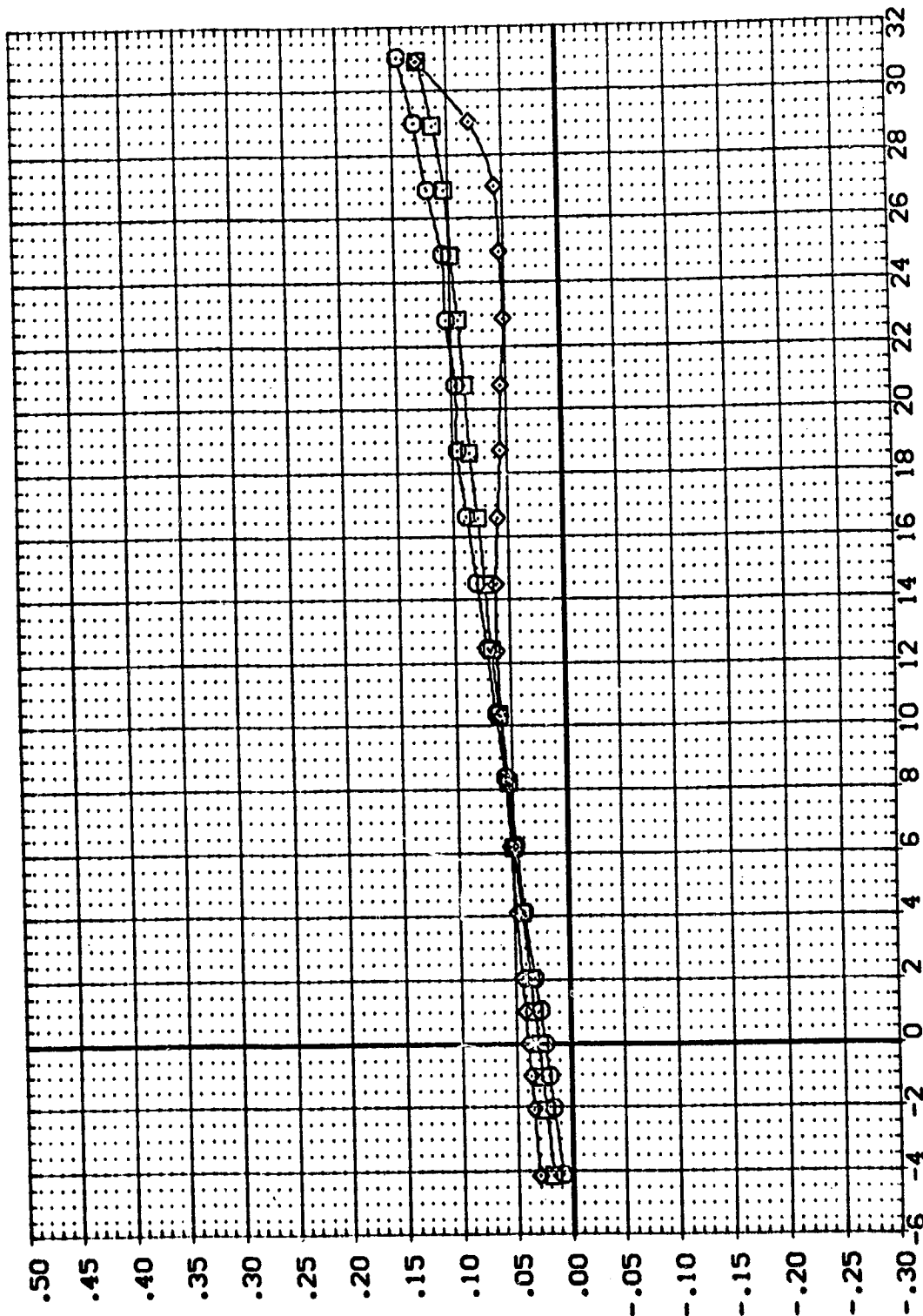
ELEVON  
.000  
.000  
.000

NACX/L  
.000  
.730

BOFLAP  
-12.000  
-12.000  
-12.000

REFERENCE INFORMATION  
SREF 4.4119 50. FT.  
LREF 19.2259 INCHES  
BREF 37.9359 INCHES  
XMRP 44.3813 INCHES  
YMRP .0000 INCHES  
ZMRP 15.1875 INCHES  
SCALE .0405

PITCHING MOMENT COEFFICIENT ABOUT AFT CG LIMIT (.675 LB). CLMAFT



ANGLE OF ATTACK, ALPHA, DEGREES

FIG 31 LONGITUDINAL CHARACTERISTICS 6 SINGLE NACELLES 6 UNDER FLUSH MOUNT

(A)MACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	NACX/L	SPOBRK	RUDER	REFERENCE INFORMATION
(RDV064)	0A62 B26C9 FB/56V116E26VBR5X10	.000	.000	.000	.000	SREF 4.4119 SQ.FT.
(RDV065)	0A62 B26C9 FB/56V116E26VBR5X10	10.000	.000	.000	.000	LREF 19.2299 INCHES
(RDV067)	0A62 B26C9 FB/56V116E26VBR5X10	.000	.730	.000	.000	BREF 37.9359 INCHES
(RDV068)	0A62 B26C9 FB/56V116E26VBR5X10	10.000	.000	.000	.000	YMRP 43.5974 INCHES
(RDV002)	0A62 B26C9 FB V116E26VBR5X9	.000	.000	.000	.000	ZMRP 15.1875 INCHES
(RDV004)	0A62 B26C9 FB V116E26VBR5X9	10.000	.000	.000	.000	SCALE .0405

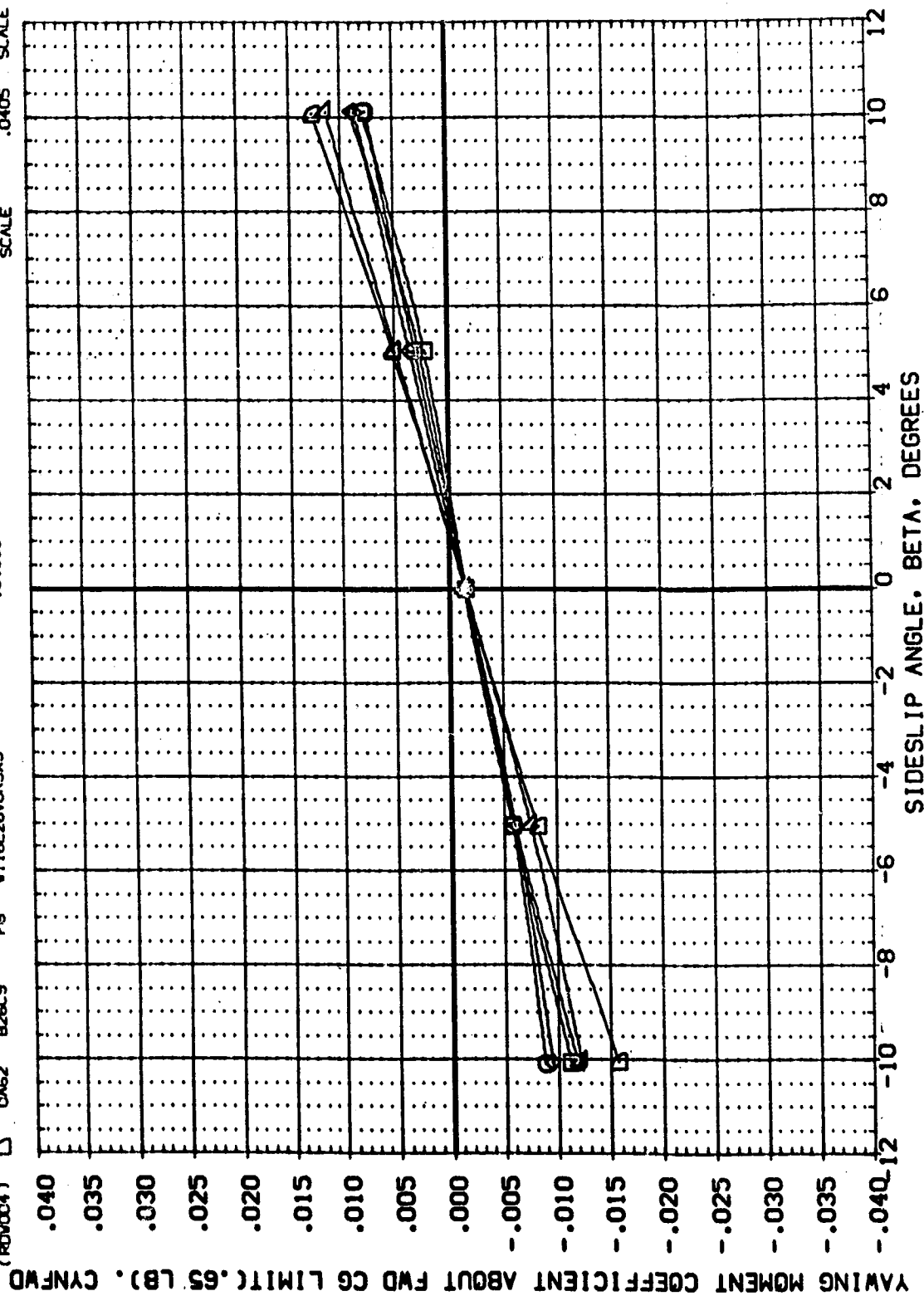


FIG 32 LAT. / DIR. CHARACTERISTICS 6 SINGLE NACELLES 6 UNDER FLUSH MOUNT  
 (A)MACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	MACH	SPDRK	RUDER	REFERENCE INFORMATION	50 FT.
(RDV064)	DAG2 B26C9 FB156V116E26VBR5X10	.000	.000	.000	.000	SREF	4.4119
(RDV065)	DAG2 B26C9 FB156V116E26VBR5X10	.000	.000	.000	.000	LREF	19.2259
(RDV067)	DAG2 B26C9 FB156V116E26VBR5X10	.000	.000	.000	.000	BREF	37.9359
(RDV068)	DAG2 B26C9 FB156V116E26VBR5X10	.000	.000	.000	.000	XMRP	43.5974
(RDV069)	DAG2 B26C9 FB156V116E26VBR5X10	.000	.000	.000	.000	YMRP	.0000
(RDV070)	DAG2 B26C9 FB156V116E26VBR5X10	.000	.000	.000	.000	ZMRP	15.1875
(RDV071)	DAG2 B26C9 FB156V116E26VBR5X10	.000	.000	.000	.000	SCALE	.0405

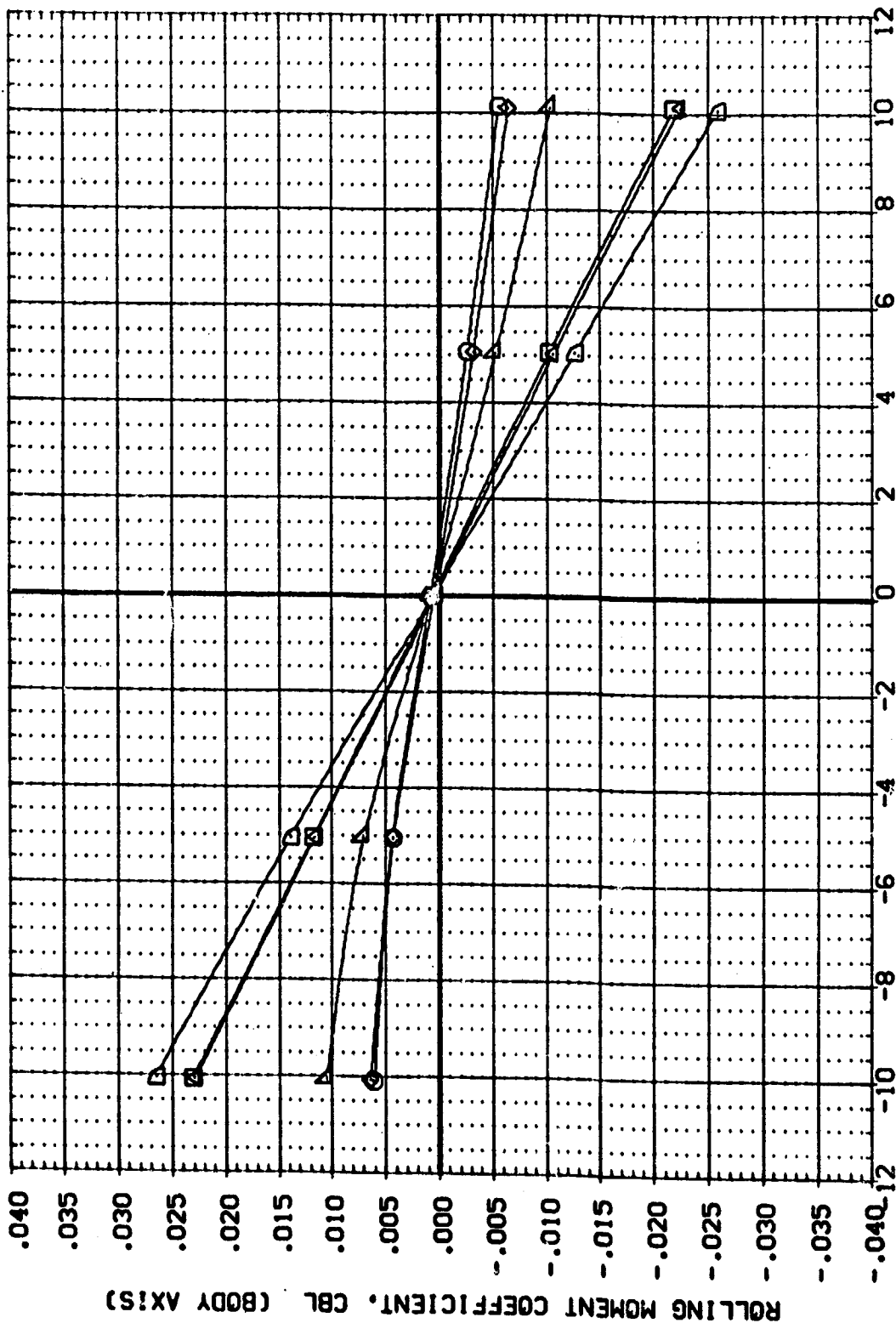


FIG 32 LAT. / DIR. CHARACTERISTICS 6 SINGLE NACELLES 6 UNDER FLUSH MOUNT  
(A)MACH = .20



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	NACA/L	SPDRK	RUDER	REFERENCE INFORMATION
(RDV054)	0A62 B26C9	.000	.000	.000	.000	4.4119 SO.FT.
(RDV055)	0A62 B26C9	10.000	.000	.000	.000	19.2299 INCHES
(RDV057)	0A62 B26C9	.000	.730	.000	.000	37.9359 INCHES
(RDV058)	0A62 B26C9	10.000	.730	.000	.000	43.5974 INCHES
(RDV062)	0A62 B26C9	.000	.000	.000	.000	.0000 INCHES
(RDV064)	0A62 B26C9	10.000	.000	.000	.000	15.1875 INCHES
						.0405 SCALE

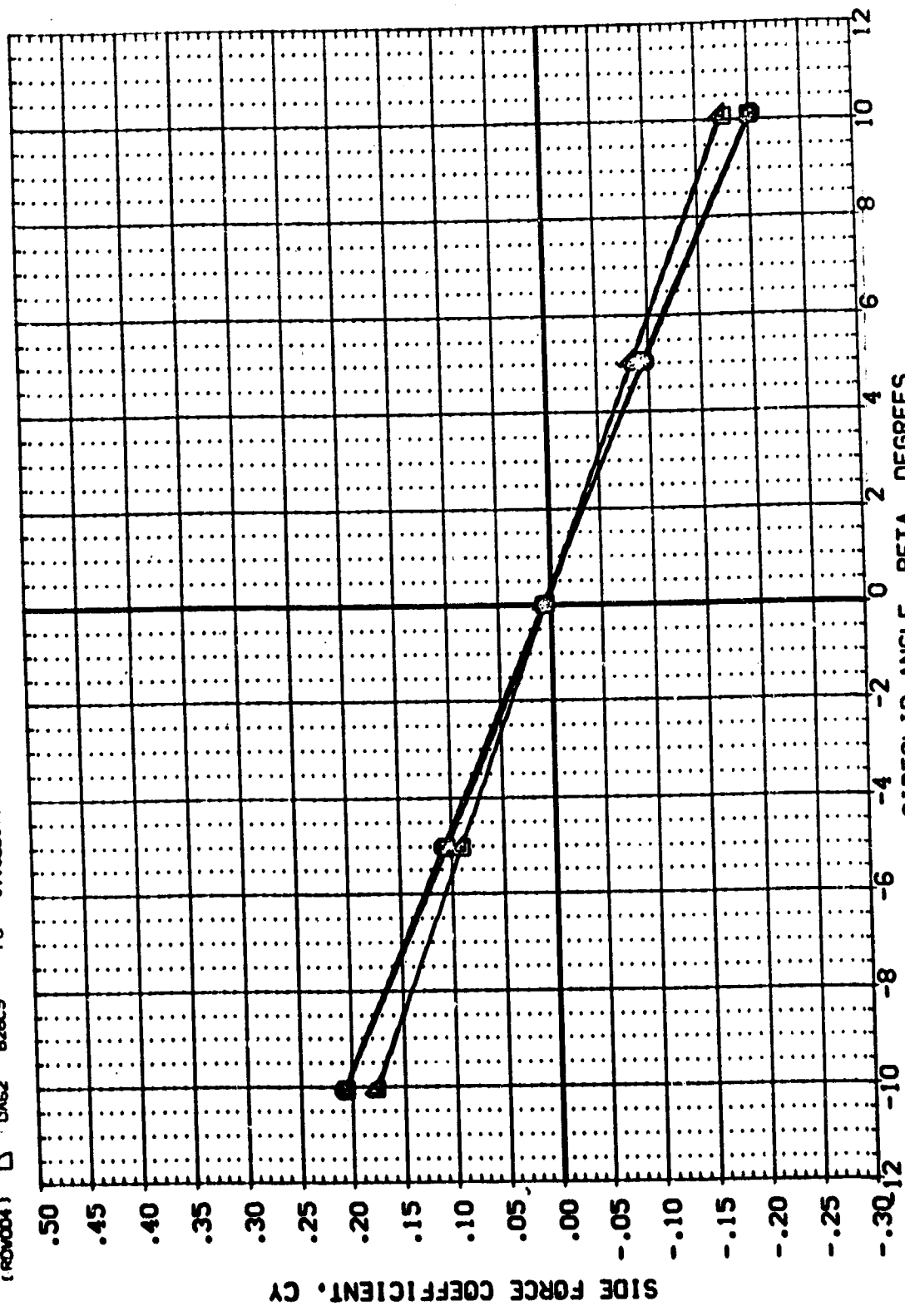


FIG 32 LAT. / DIR. CHARACTERISTICS 6 SINGLE NACELLES 6 UNDER FLUSH MOUNT  
 (A)MACH = .20

DATA SET SYMBOL  
(EDV064)  
(EDV067)  
(EDV002)

CONFIGURATION DESCRIPTION  
0462 826C9 FB156M116E26VBR5X10  
0462 826C9 FB156M116E26VBR5X10  
0462 826C9 FB V116E26VBR5X9

NACVAL  
.000  
.730

ELEVON  
.000  
.000  
.000  
-12.000  
-12.000  
-12.000

SPOBRK  
.000  
.000  
.000

REFERENCE INFORMATION  
SREF 4.4119 50. FT  
LREF 19.2299 INCHES  
BREF 37.9359 INCHES  
XREF 43.5974 INCHES  
YREF .0000 INCHES  
ZREF 15.1875 INCHES  
SCALE .0405

YAWING MOMENT COEFFICIENT DERIVATIVE WITH BETA, CYMBET, PER DEGREE

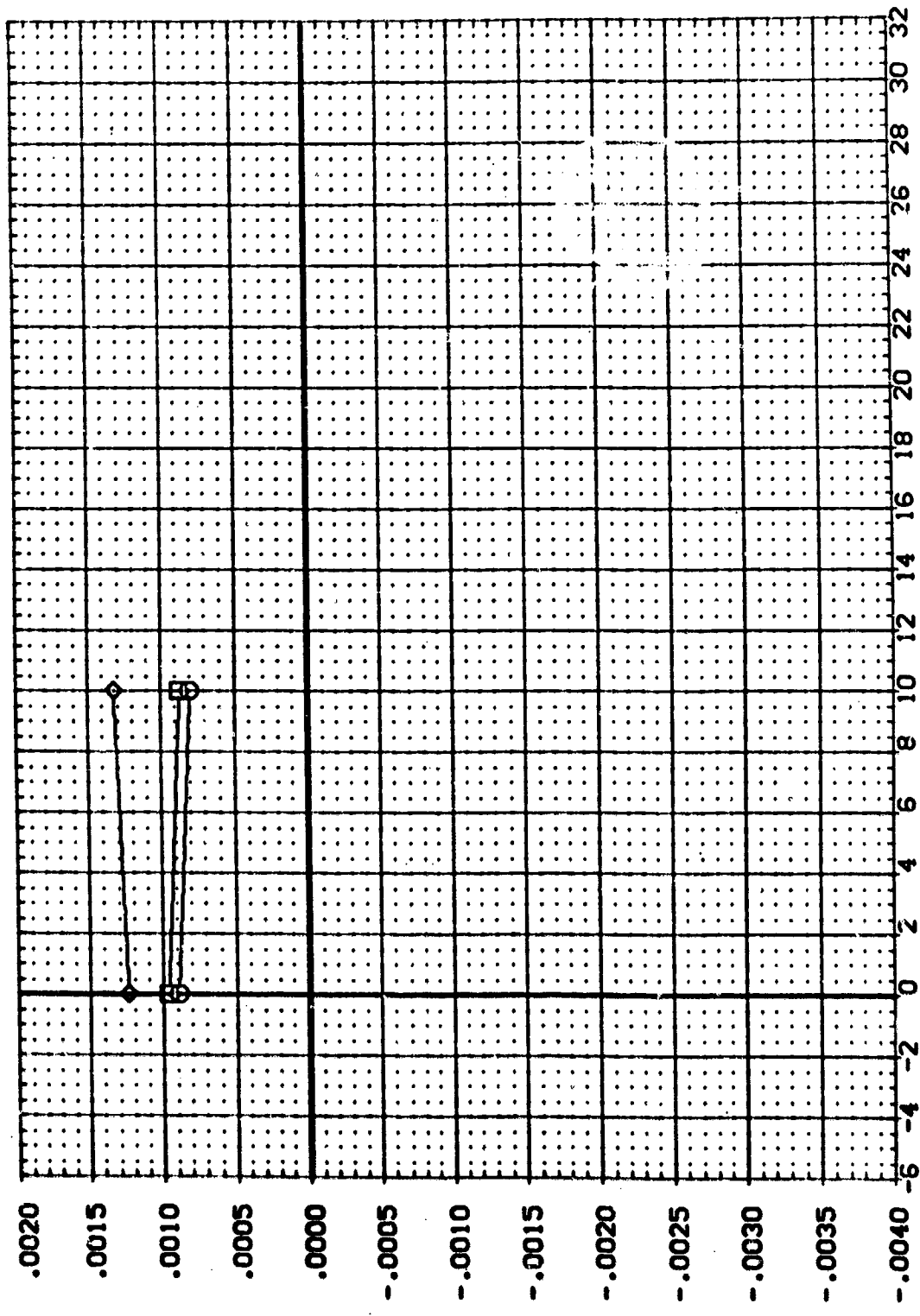


FIG 32 LAT. / DIR. CHARACTERISTICS 6 SINGLE NACELLES 6 UNDER FLUSH MOUNT

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NACVAL	ELEVON	BOFLAP	SPORARK	REFERENCE INFORMATION
(EDV064)	DAG2 B26C9	.000	.000	-12.000	.000	SREF 4.4119 50 FT.
(EDV067)	DAG2 B26C9	.730	.000	-12.000	.000	LREF 19.2299 INCHES
(EDV002)	DAG2 B26C9		.000	-12.000	.000	BREF 37.9359 INCHES
						YREF 43.5974 INCHES
						ZREF .0000 INCHES
						SCALE 15.1875 INCHES

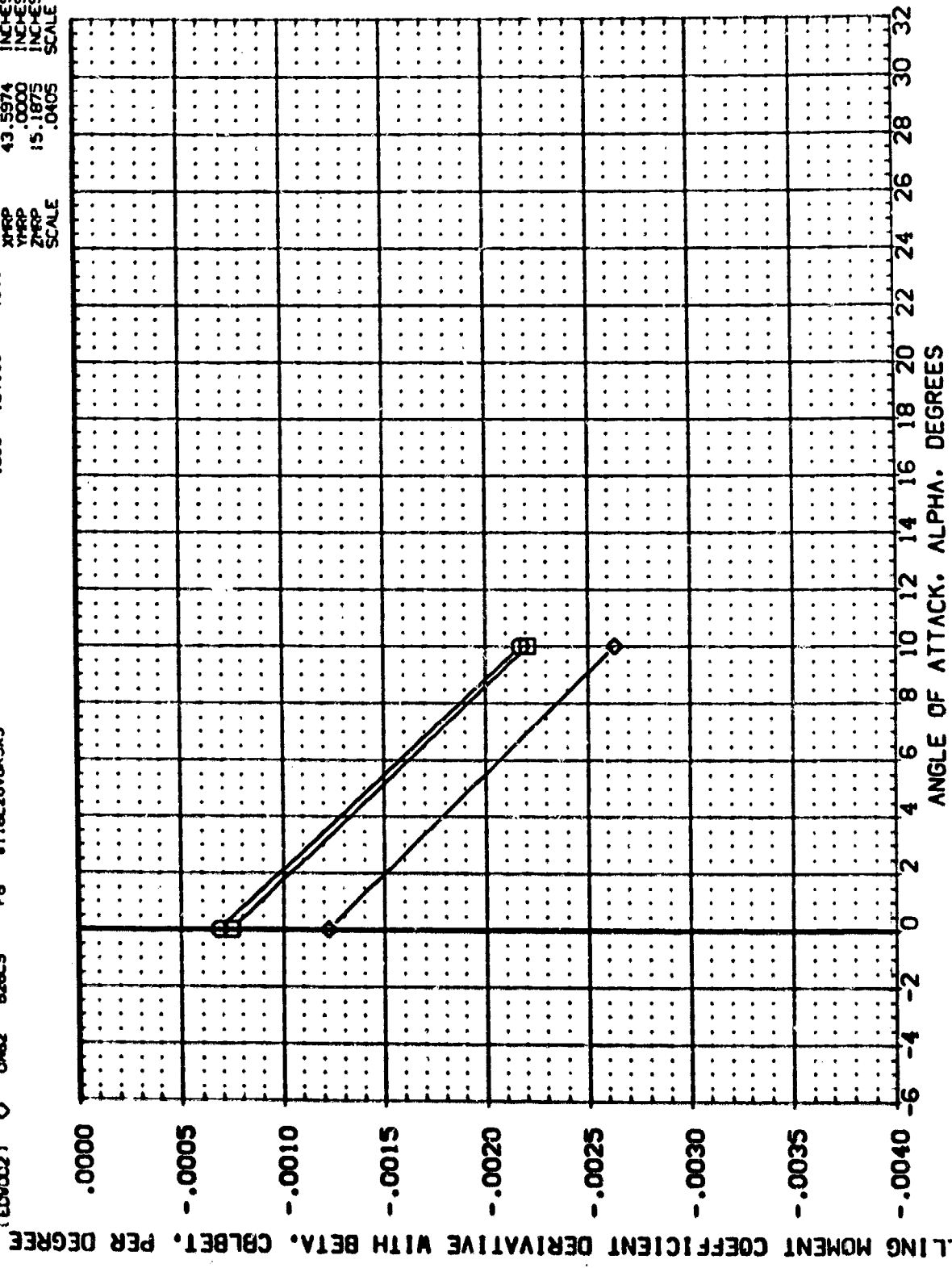


FIG 32 LAT. / DIR. CHARACTERISTICS 6 SINGLE NACELLES 6 UNDER FLUSH MOUNT

DATA SET SYMBOL: (EDV054) (EDV057) (EDV058)  
 CONFIGURATION DESCRIPTION: OAG2 B26C9 FB/56V116Z26V8PSX10 OAG2 B26C9 FB/56V116Z26V8PSX10 OAG2 B26C9 FB V116Z26V8PSX9  
 NAC/L: .000 .730  
 ELEVON: .000 .000 .000  
 BD/FLAP: -12.000 -12.000 -12.000  
 SPOBRK: .000 .000 .000  
 REFERENCE INFORMATION: SREF 4.4119 SO.FT. INCHES LREF 19.2299 INCHES BREF 37.9359 INCHES YMRP 43.5974 INCHES ZMRP .0000 INCHES SCALE 15.1875 INCHES .0405

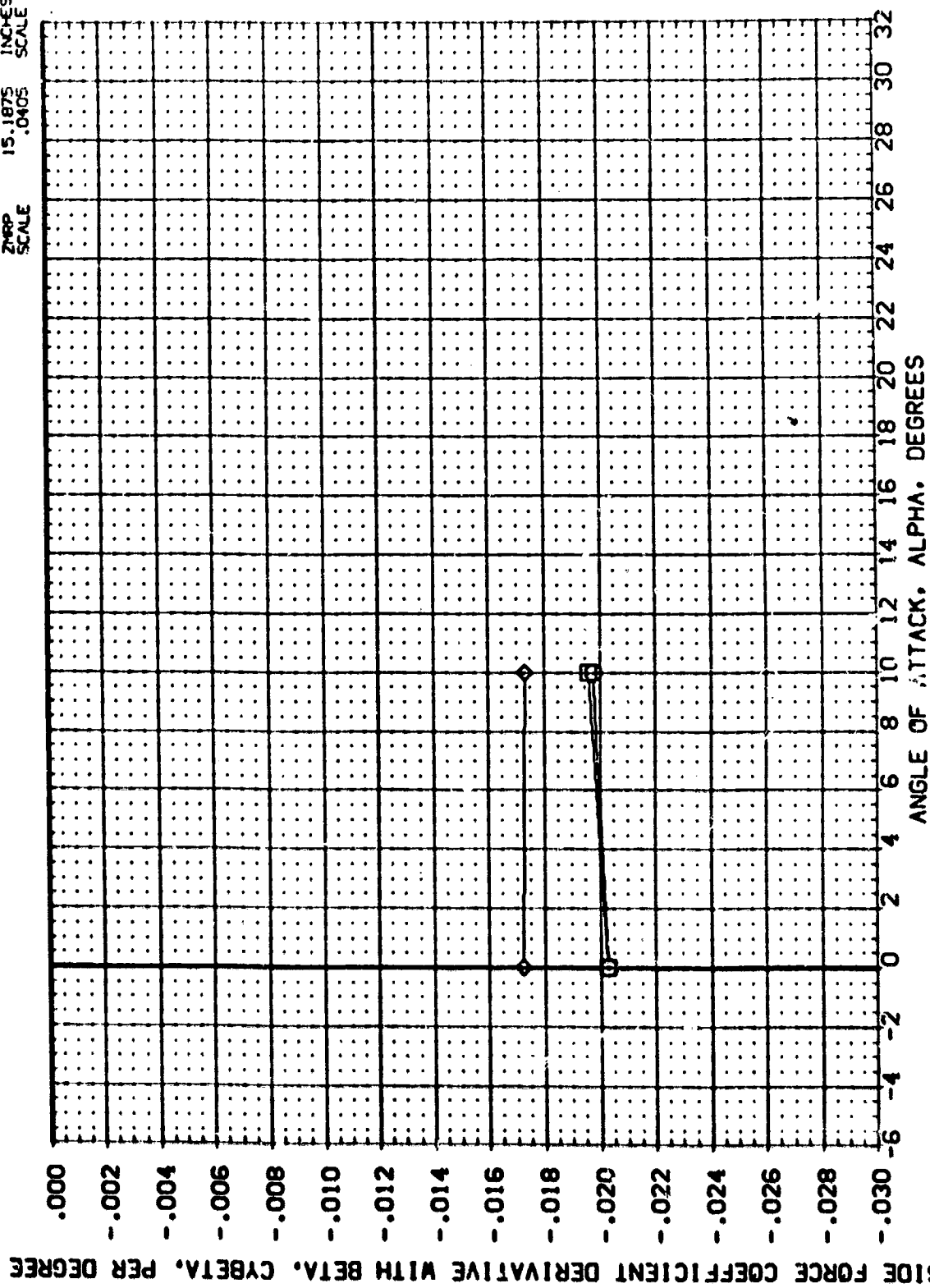


FIG 32 LAT. / DIR. CHARACTERISTICS 6 SINGLE NACELLES 6 UNDER FLUSH MOUNT  
 PAGE 244

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	MACX/L	ELEVON	BDFLAP	SPOBRK	REFERENCE INFORMATION
(ADV069)	QAG2 B26C9 F8J57V116E26V8K5X10	1.290	.000	-12.000	.000	SREF 4.4119 SO.FT.
(ADV072)	QAG2 B26C9 F8J58V116E26V8K5X10	1.290	.000	-12.000	.000	LREF 19.2298 INCHES
(ADV001)	QAG2 B26C9 F8 V116E26V8K5X9		.000	-12.000	.000	BREF 37.9359 INCHES
						XMRP 43.5974 INCHES
						YMRP .0000 INCHES
						ZMRP 15.1875 INCHES
						SCALE .0405

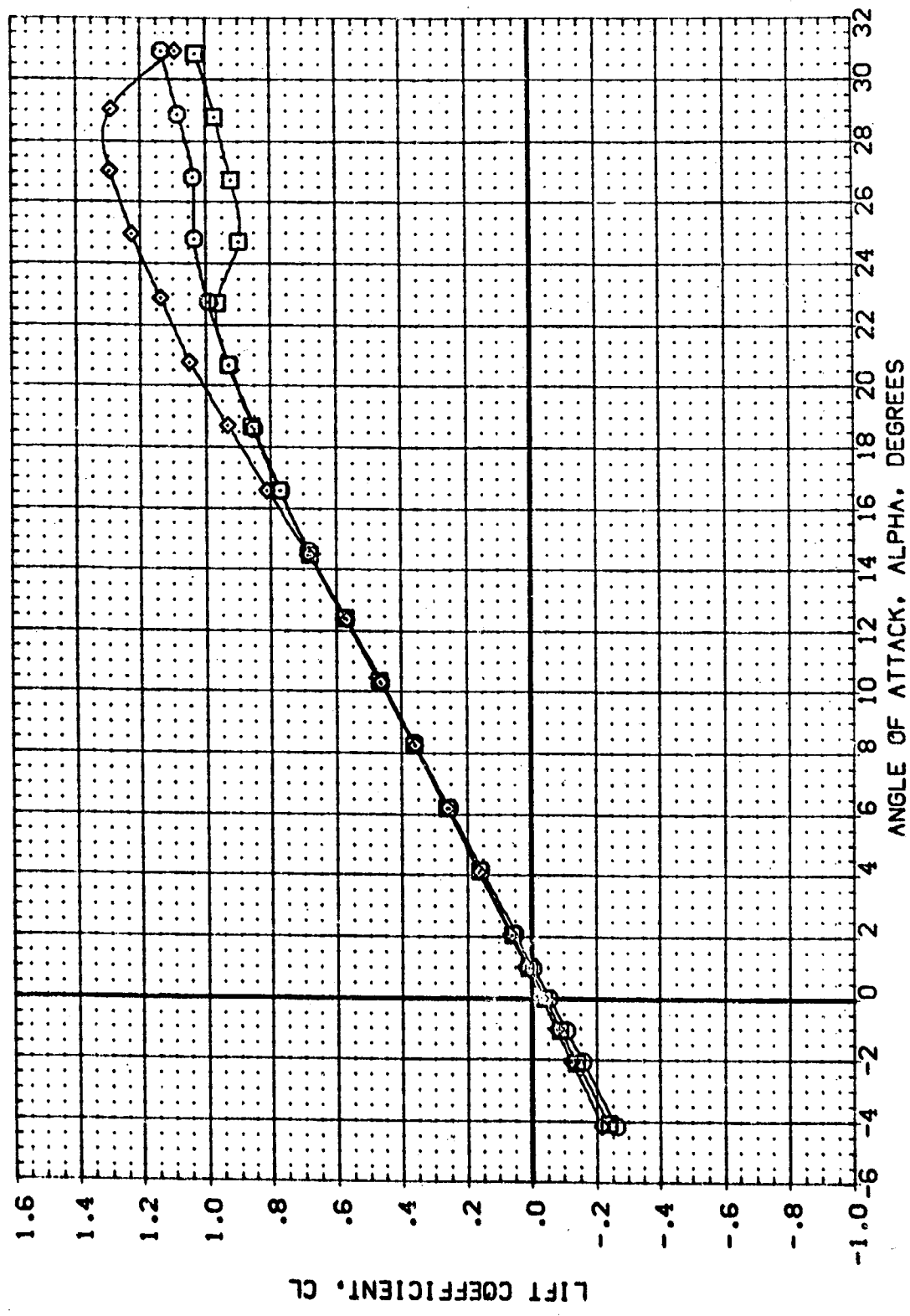


FIG 33 LONGITUDINAL CHARACTERISTICS 4 SINGLE UNDER 2 BODY MOUNT

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NACX/L	ELEVON	BOFLAP	SPODRK	REFERENCE INFORMATION
(ADV069)	0A62 B26C9	1.290	.000	-12.000	.000	SREF 4.4119 50. FT.
(ADV072)	0A62 B26C9	1.290	.000	-12.000	.000	LREF 19.2299 INCHES
(ADV001)	0A62 B26C9	1.290	.000	-12.000	.000	BREF 37.9359 INCHES
						XMREF 43.5974 INCHES
						YMREF .0000 INCHES
						ZMREF 15.1875 INCHES
						SCALE .0405

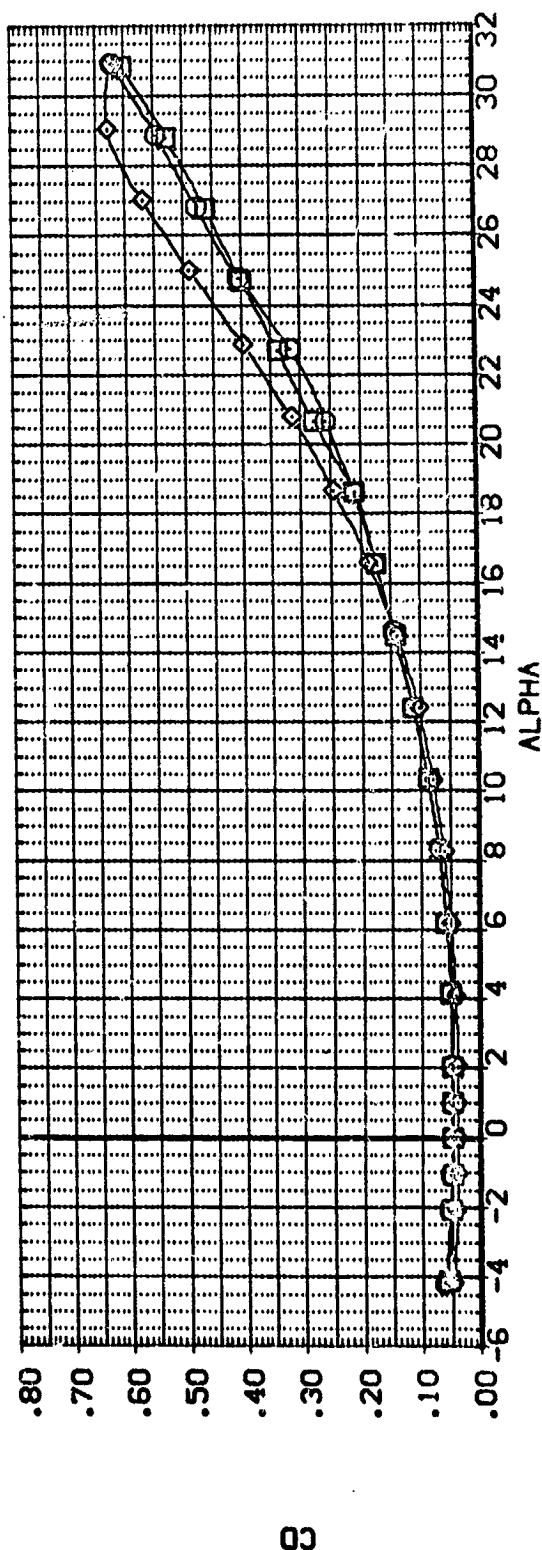
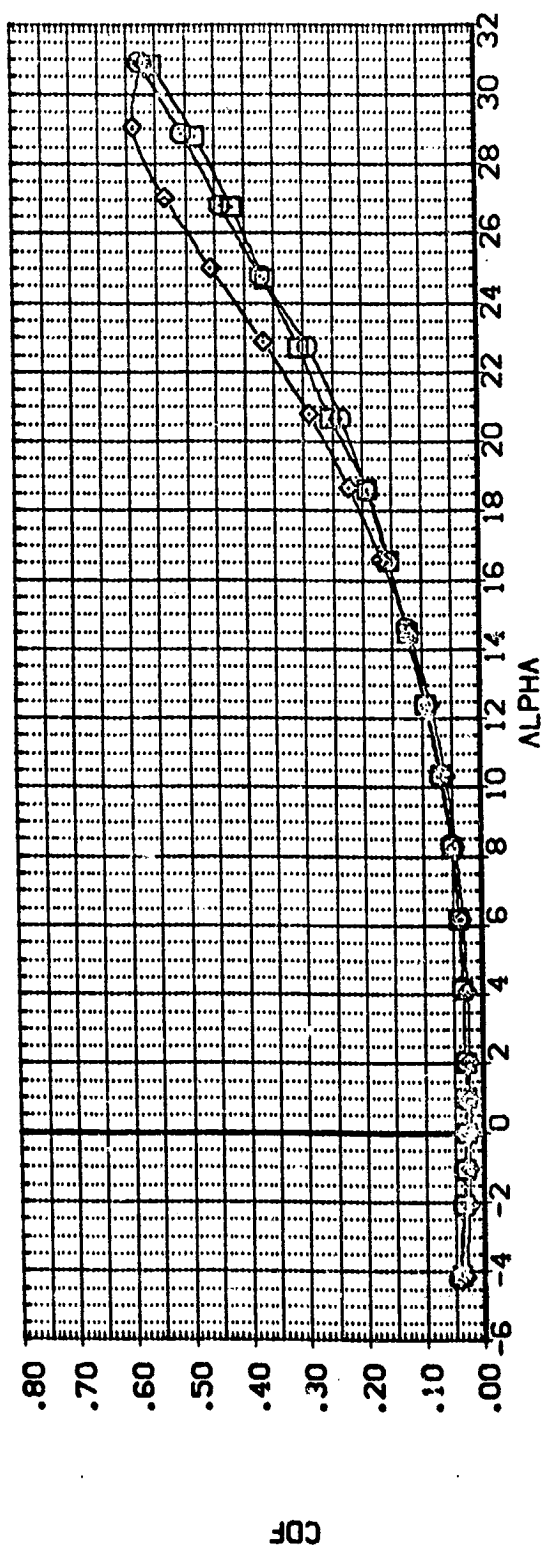


FIG 33 LONGITUDINAL CHARACTERISTICS 4 SINGLE UNDER 2 BODY MOUNT  
(A)MACH = .20 PAGE 246



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NACA/L	ELEVON	BOFLAP	SPDRBK	REFERENCE INFORMATION
(ADW059)	FBUSVNI16E26V8SX10	1.250	.000	-12.000	.000	SREF 4.4119 SO.FT. INCHES
(ADW072)	FBUSVNI16E26V8SX10	1.250	.000	-12.000	.000	LREF 19.2299 INCHES
(ADW001)	FBUSVNI16E26V8SX10	1.250	.000	-12.000	.000	BREF 37.9359 INCHES
	FBUSVNI16E26V8SX10					XREF 43.5974 INCHES
						YREF .0000 INCHES
						ZREF 15.1875 INCHES
						SCALE .0405

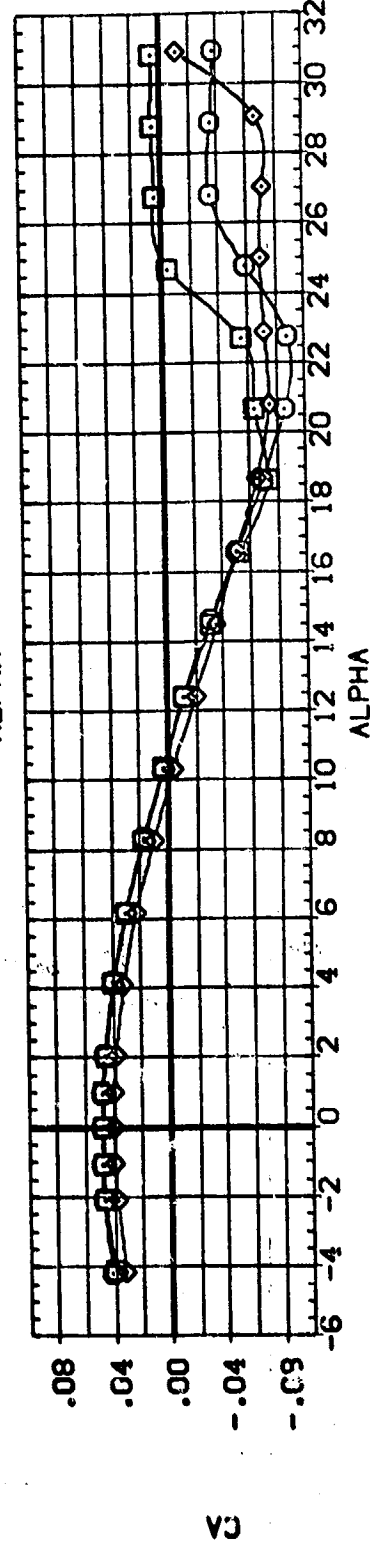
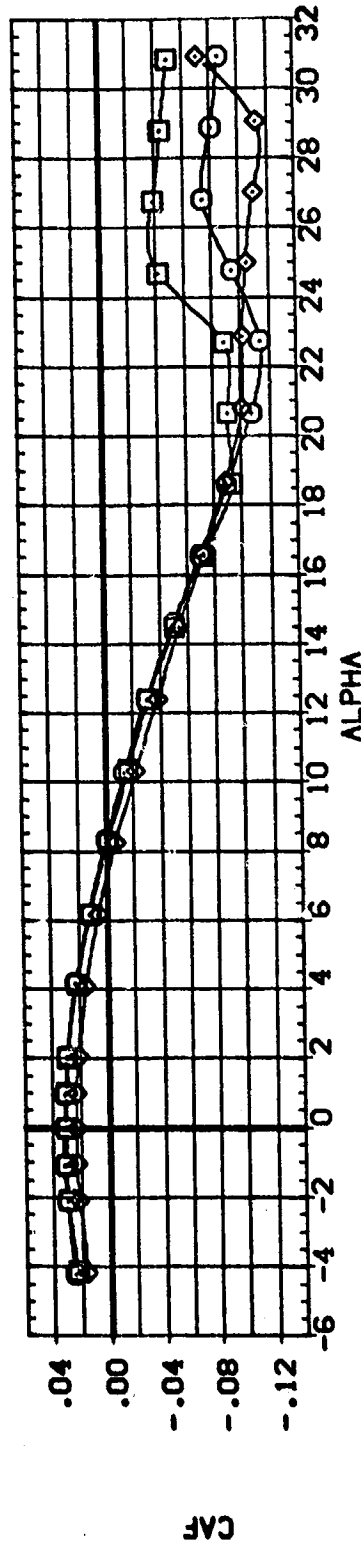
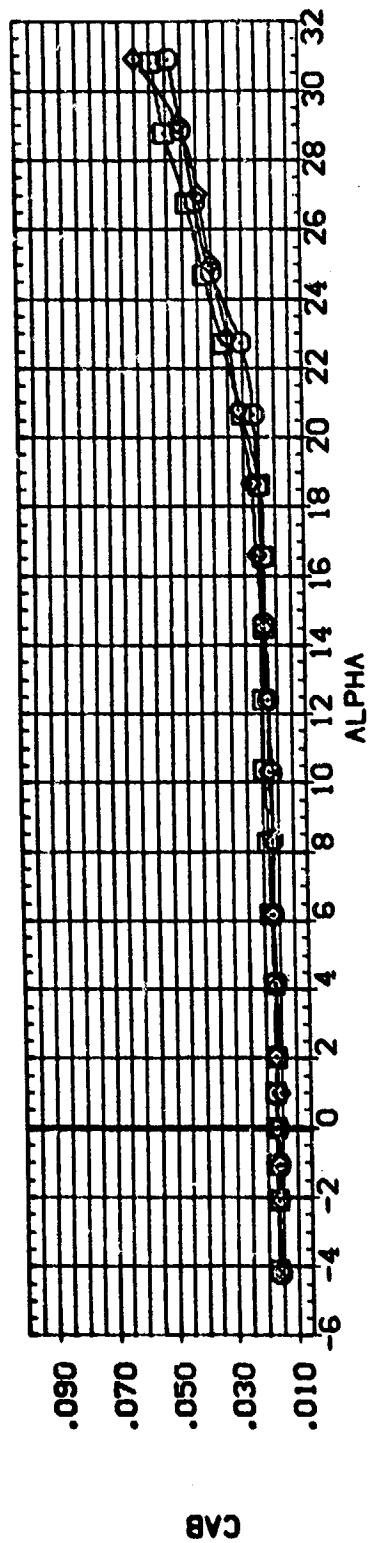


FIG 33 LONGITUDINAL CHARACTERISTICS 4 SINGLE UNDER 2 BODY MOUNT

(A)MACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NACA/L	ELEVON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(ADM059)	0A62 B26C9	1.250	.000	-12.000	.000	SREF 4.4119 50 FT.
(ADM072)	0A62 B26C9	1.250	.000	-12.000	.000	LREF 19.2298 INCHES
(ADM001)	0A62 B26C9		.000	-12.000	.000	BREF 37.5359 INCHES
						XREF 43.5974 INCHES
						YREF .0000 INCHES
						ZREF 15.1875 INCHES
						SCALE .0405

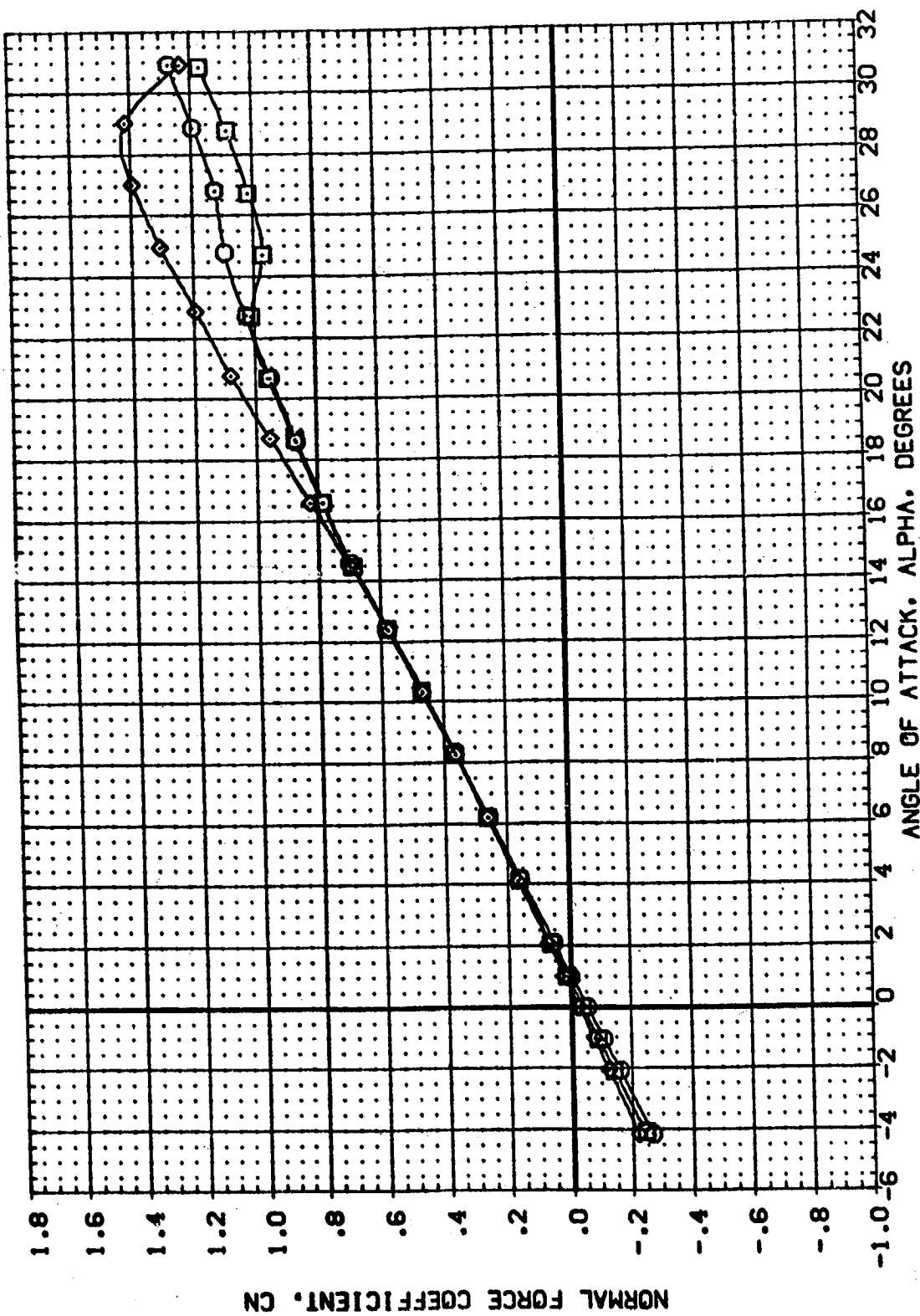


FIG 33 LONGITUDINAL CHARACTERISTICS 4 SINGLE UNDER 2 BODY MOUNT  
 (A)MACH = .20  
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DATA SET SYMBOL: (ADW069) (ADW072) (ADW001)

CONFIGURATION DESCRIPTION: B26C9 B26C9 B26C9  
 FBJS7V115E26V8RSX10  
 FBJS8V115E26V8RSX10  
 F8 V115E26V8RSX9

NACX/L: 1.290 1.290

ELEVON: .000 .000 .000

BOFLAP: -12.000 -12.000 -12.000

SPOBRK: .000 .000 .000

REFERENCE INFORMATION: SREF 4.4119 50.FT. INCHES  
 LREF 19.2299 INCHES  
 BREF 37.9359 INCHES  
 XMRP 43.5974 INCHES  
 YMRP 15.0000 INCHES  
 ZMRP 15.1875 INCHES  
 SCALE .0405

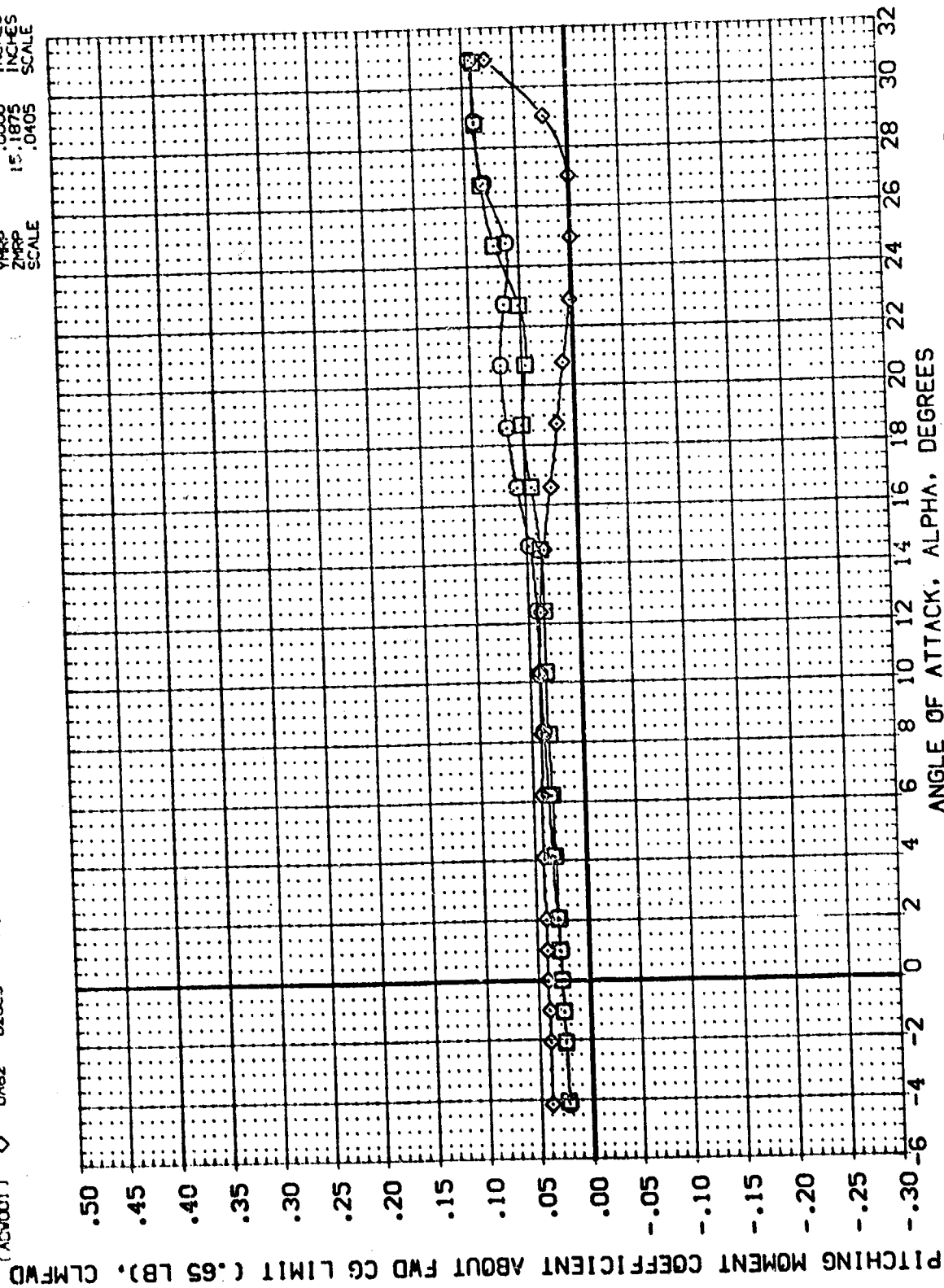


FIG 33 LONGITUDINAL CHARACTERISTICS 4 SINGLE UNDER 2 BODY MOUNT

(A)MACH = .20

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NACA/L	ELEVON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(ADW069)	QAG2 B26C9	1.290	.000	-12.000	.000	SREF 4.4119 50. FT.
(ADW072)	QAG2 B26C9	1.290	.000	-12.000	.000	LREF 19.2298 INCHES
(ADW001)	QAG2 B26C9	1.290	.000	-12.000	.000	BREF 37.5359 INCHES
						YMRP 43.5974 INCHES
						ZMRP .0000 INCHES
						SCALE 15.1875 INCHES
						SCALE .0405

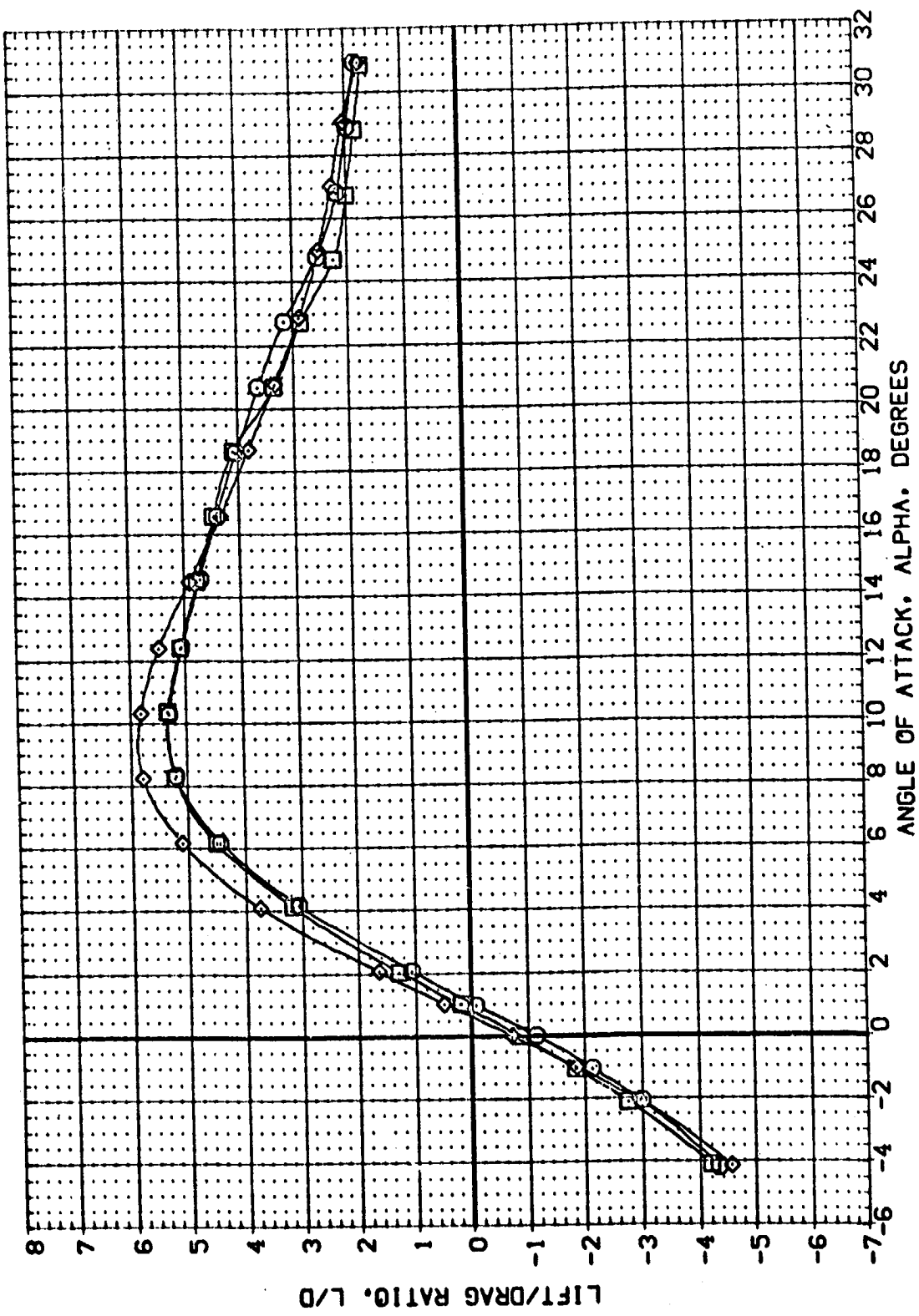


FIG 33 LONGITUDINAL CHARACTERISTICS 4 SINGLE UNDER 2 BODY MOUNT  
 (A)MACH = .20 PAGE 250

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(ADVO69)	QAE2	B2BC3	F8J57V116E26VBR5X10
(ADVO72)	QAE2	B2BC3	F8J56V116E26VBR5X10
(ADVO01)	QAE2	B2BC3	F8J56V116E26VBR5X9

NACA/L ELEVON BOFLAP SPOBRK

1.290	.000	-12.000	.000
1.290	.000	-12.000	.000

REFERENCE INFORMATION

SREF	4.4119	SO.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	15.1875	INCHES
SCALE	.0405	SCALE

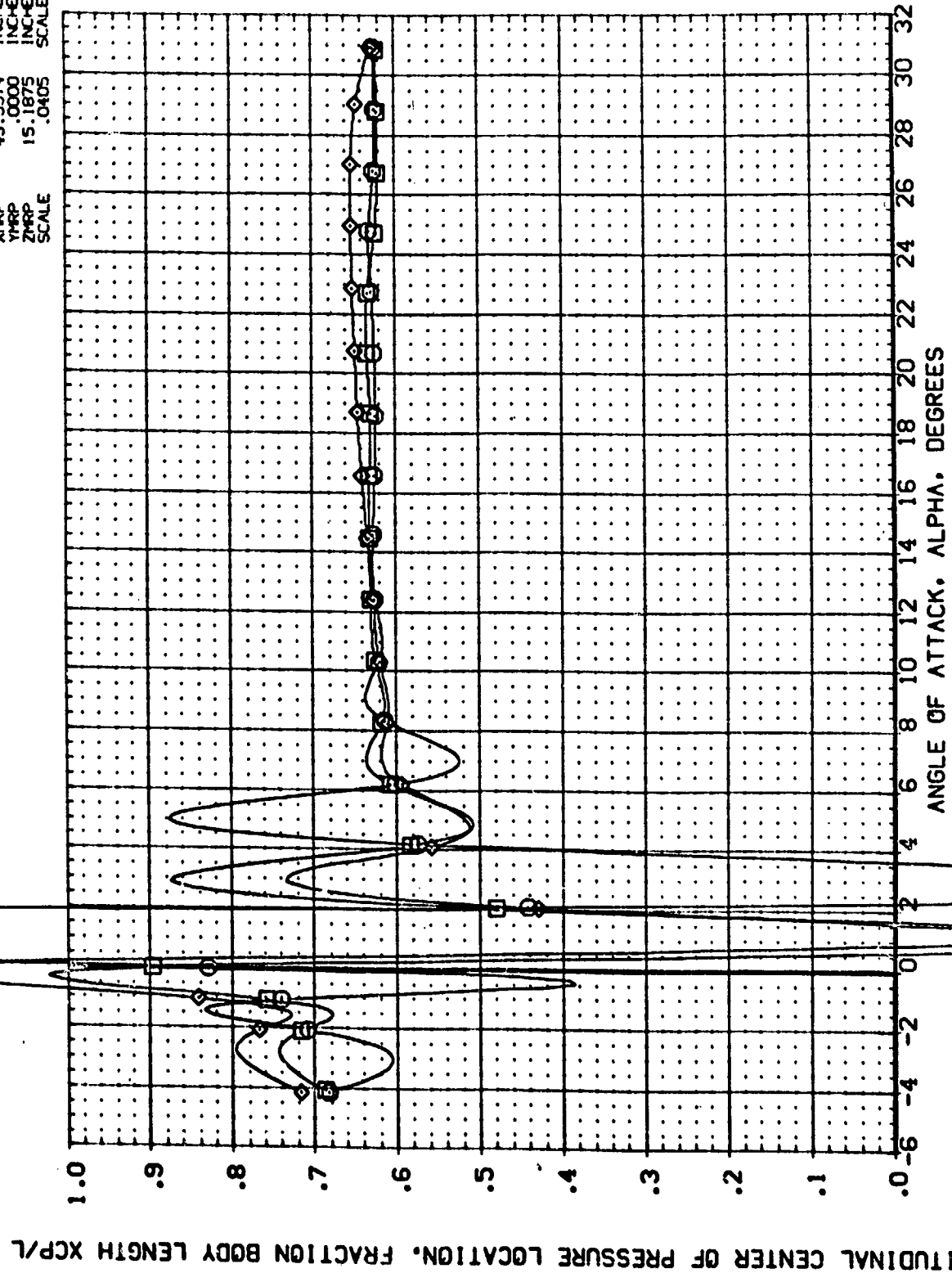


FIG 33 LONGITUDINAL CHARACTERISTICS 4 SINGLE UNDER 2 BODY MOUNT

(A)MACH = .20

DATA SET SYMBOL  
(ADW059)  
(ADW072)  
(ADW001)

CONFIGURATION DESCRIPTION  
DAG2 B26C9  
DAG2 B26C9  
F8 V11E26V5R5X10  
F8 V11E26V5R5X10  
F8 V11E26V5R5X10

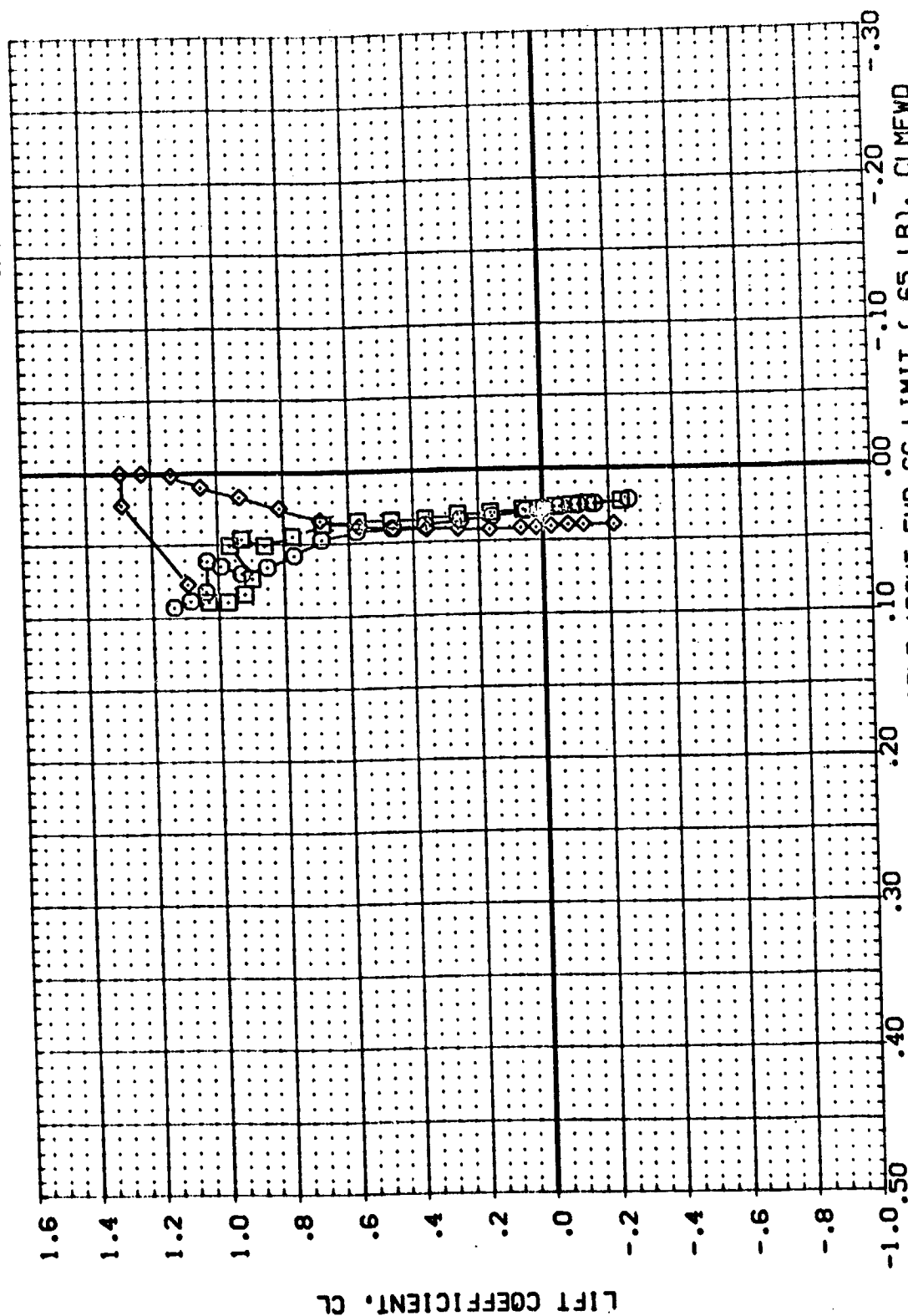
NACA/L  
1.250  
1.250

ELEVON  
.000  
.000  
.000

BOFLAP  
-12.000  
-12.000  
-12.000

SPODBRK  
.000  
.000  
.000

REFERENCE INFORMATION  
SREF 4.4119 SO.FT.  
LREF 19.2299 INCHES  
BREF 37.9359 INCHES  
XMRP 43.5974 INCHES  
YMRP .0000 INCHES  
ZMRP 15.1875 INCHES  
SCALE .0405



PITCHING MOMENT COEFFICIENT ABOUT FWD CG LIMIT (.65 LB). CLMFWD

2 BODY MOUNT

4 SINGLE UNDER

CLMFWD

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NACA/L	ELEVON	BOFLAP	SPDRK	REFERENCE INFORMATION
(ADM069)	0A52 B26C9 FB/57M116E26V8R5X10	1.250	.000	-12.000	.000	SREF 4.4119 50. FT.
(ADM072)	0A52 B26C9 FB/58M116E26V8R5X10	1.250	.000	-12.000	.000	LREF 19.2299 INCHES
(ADM001)	0A52 B26C9 FB V116E26V8R5X9					BREF 37.5359 INCHES
						YMRP 43.5974 INCHES
						ZMRP .0000 INCHES
						SCALE 15.1875 INCHES
						SCALE .0405

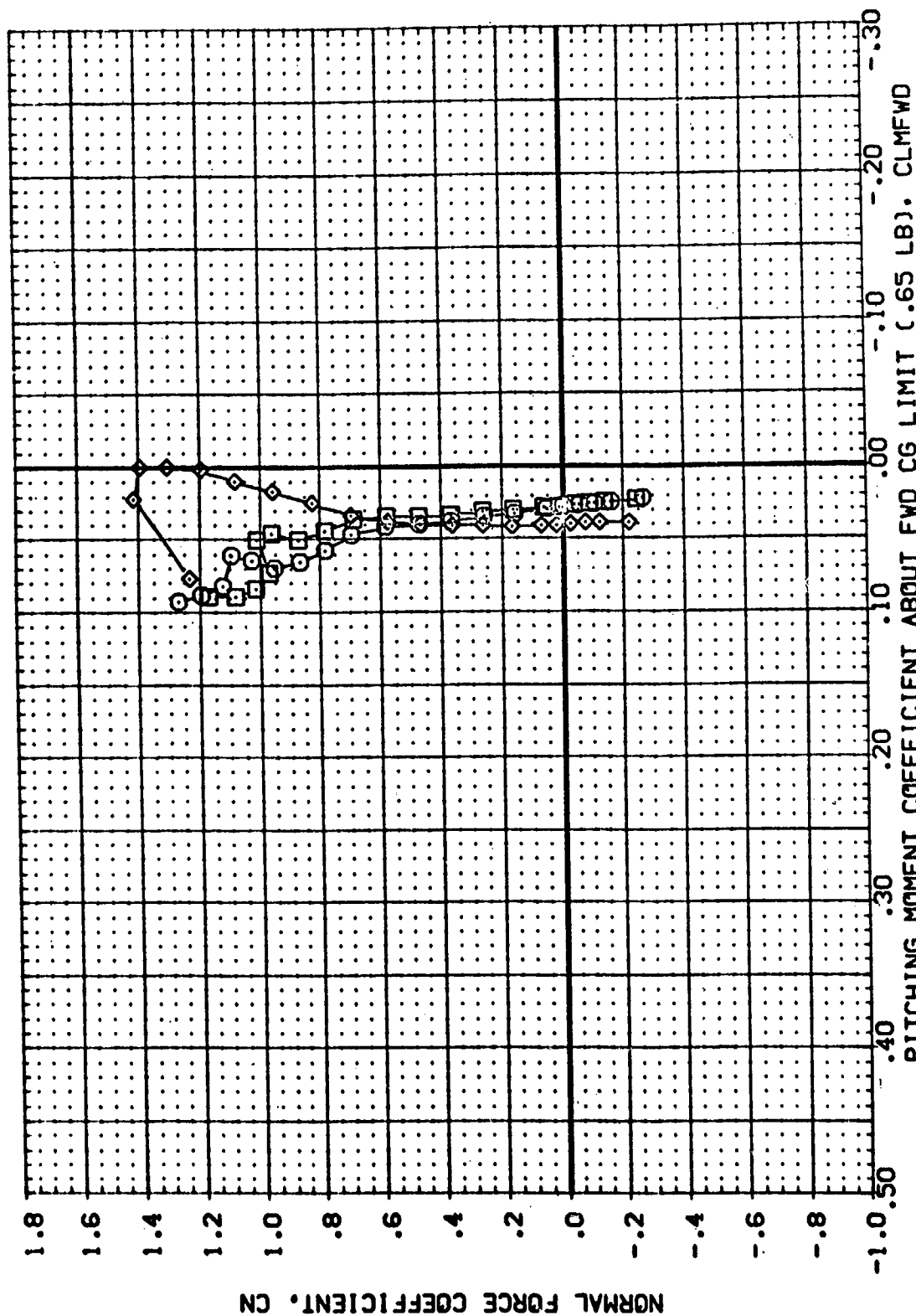


FIG 33 LONGITUDINAL CHARACTERISTICS 4 SINGLE UNDER 2 BODY MOUNT  
 (A)MACH = .20 PAGE 253

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (ADV059) OA62 B26C9 FB/57V116E26V85X10  
 (ADV072) OA62 B26C9 FB/58V116E26V85X10  
 (ADV001) OA62 B26C9 FB V116E26V85X9

NACA/L ELEVON BOFLAP SPDRBK REFERENCE INFORMATION  
 1.290 .000 -12.000 .000 SREF 4.4119 50.FT.  
 1.290 .000 -12.000 .000 LREF 19.2258 INCHES  
 .000 .000 -12.000 .000 BREF 37.5359 INCHES  
 .000 .000 -12.000 .000 XMRP 43.5974 INCHES  
 .000 .000 .000 .000 YMRP .0000 INCHES  
 .000 .000 .000 .000 ZMRP 15.1875 INCHES  
 .000 .000 .000 .000 SCALE .0405

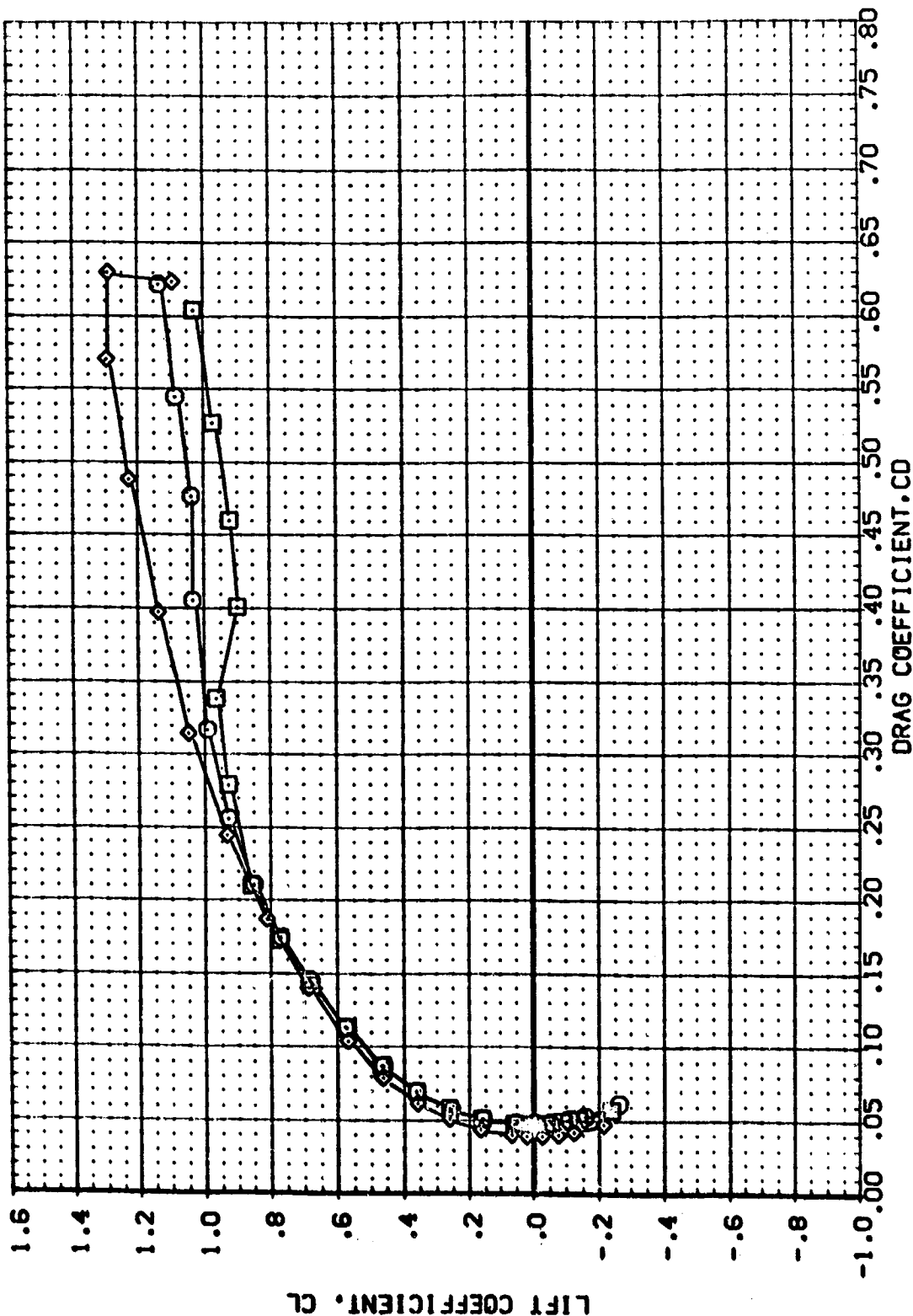


FIG 33 LONGITUDINAL CHARACTERISTICS 4 SINGLE UNDER 2 BODY MOUNT

(A)MACH = .20

DATA SET SYMBOL CONFIGURATION DESCRIPTION

QAG2	B26C9	F8J57V116E26V85X10
QAG2	B26C9	F8J58V116E26V85X10
QAG2	B26C9	F8J59V116E26V85X10
QAG2	B26C9	F8J60V116E26V85X10

REFERENCE INFORMATION

SREF	4.4119	SO.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	44.3813	INCHES
YMRP	15.0000	INCHES
ZMRP	15.1875	INCHES
SCALE	.0405	SCALE

NACA/ELEVON BOFLAP SPODBK

1.290	.000	.000	.000
1.290	.000	.000	.000
1.290	.000	.000	.000

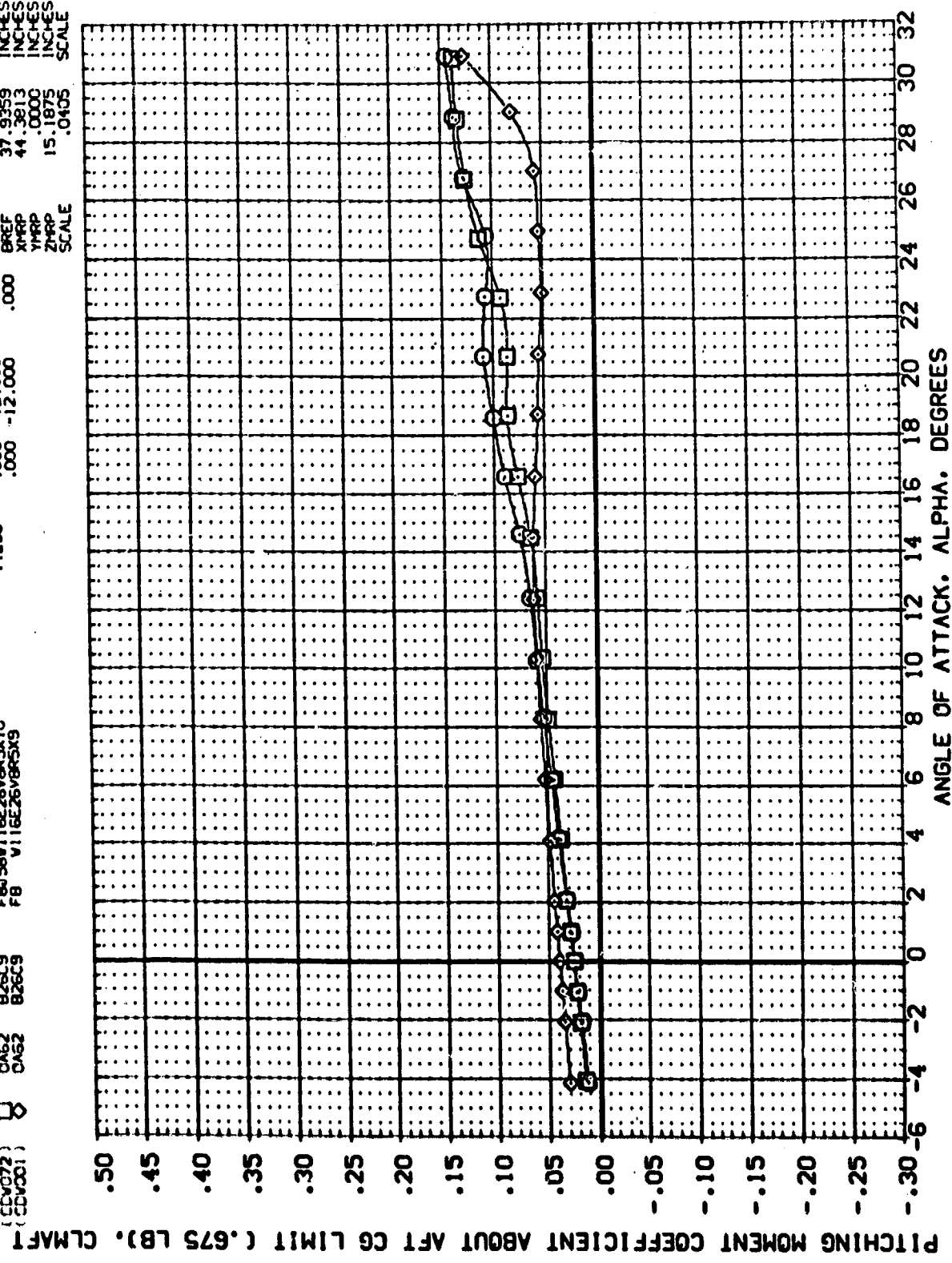


FIG 33 LONGITUDINAL CHARACTERISTICS 4 SINGLE UNDER 2 BODY MOUNT

(A)MACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	MACH/L	SPOBRK	RUDDER	REFERENCE INFORMATION
(RCV070)	0A62 B26C9 FB157V11GE26V8RSX10	.000	1.290	.000	.000	SREF 4.4119 SO.FT
(RCV071)	0A62 B26C9 FB157V11GE26V8RSX10	10.000	1.290	.000	.000	LRFF 19.2339 INCHES
(RCV073)	0A62 B26C9 FB158V11GE26V8RSX10	.000	1.290	.000	.000	BREF 37.9339 INCHES
(RCV074)	0A62 B26C9 FB158V11GE26V8RSX10	10.000	1.290	.000	.000	XRRP 43.5374 INCHES
(RCV002)	0A62 B26C9 FB V11GE26V8RSX9	.000		.000	.000	YRRP .0000 INCHES
(RCV004)	0A62 B26C9 FB V11GE26V8RSX9	10.000		.000	.000	ZRRP 15.1875 INCHES
						SCALE .0405

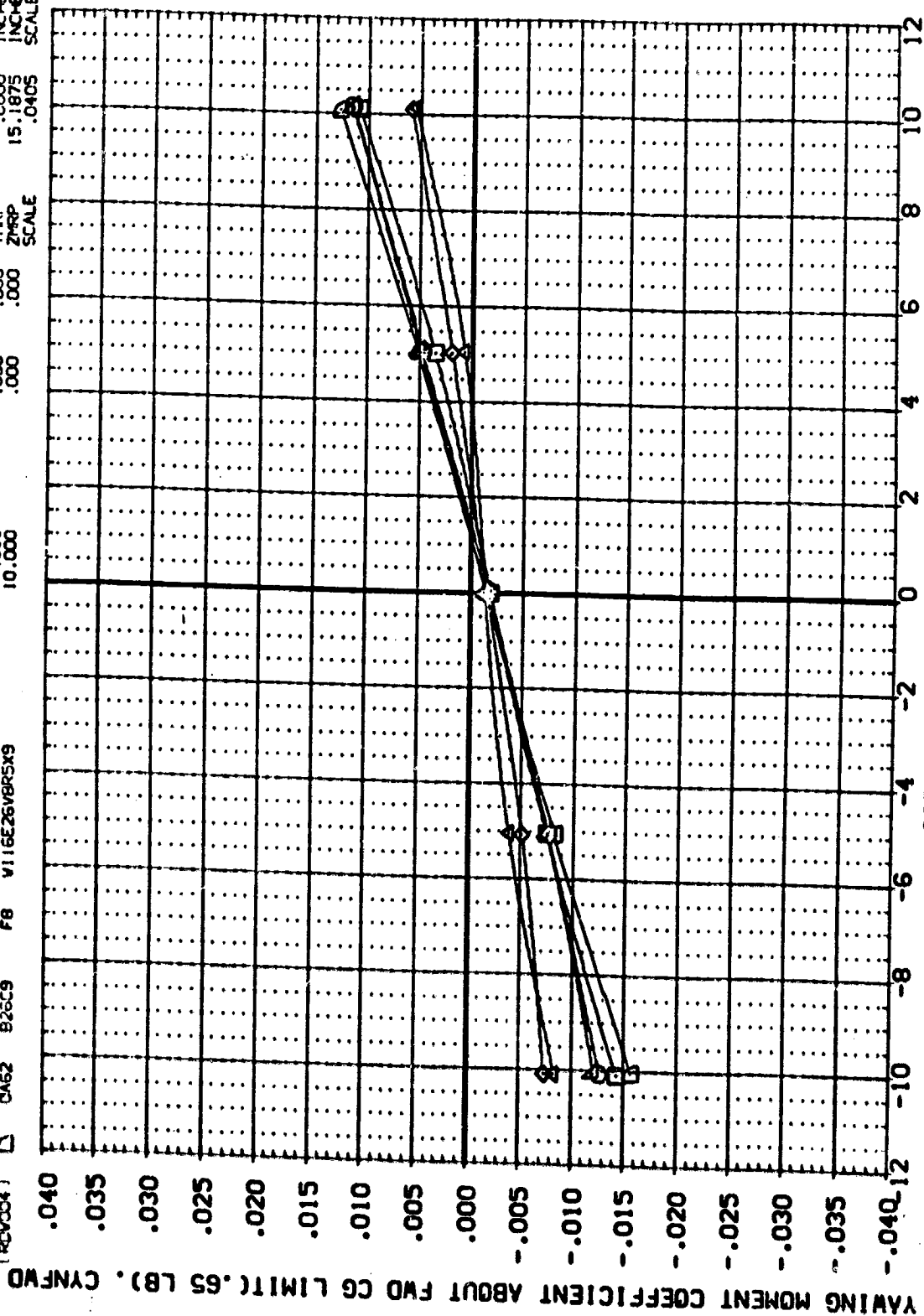


FIG 34 LAT. / DIR. CHARACTERISTICS 4 SINGLE UNDER 2 BODY MOUNT  
(A)MACH = .20



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	NACA	SPDRK	FLDOR	REFERENCE INFORMATION
(R0V070)	0462 826C9 F8J57V11GE26V85X10	.000	1.290	.000	.000	SREF 4.4119 SQ.FT.
(R0V071)	0462 826C9 F8J57V11GE26V85X10	10.000	1.290	.000	.000	LREF 19.2259 INCHES
(R0V073)	0462 826C9 F8J58V11GE26V85X10	.000	1.290	.000	.000	BREF 37.9359 INCHES
(R0V074)	0462 826C9 F8J58V11GE26V85X10	10.000	1.290	.000	.000	XREF 43.5974 INCHES
(R0V002)	0462 826C9 F8 V11GE26V85X9	.000	.000	.000	.000	YREF .0000 INCHES
(R0V004)	0462 826C9 F8 V11GE26V85X9	10.000	.000	.000	.000	ZREF 15.1875 INCHES
						SCALE .0405

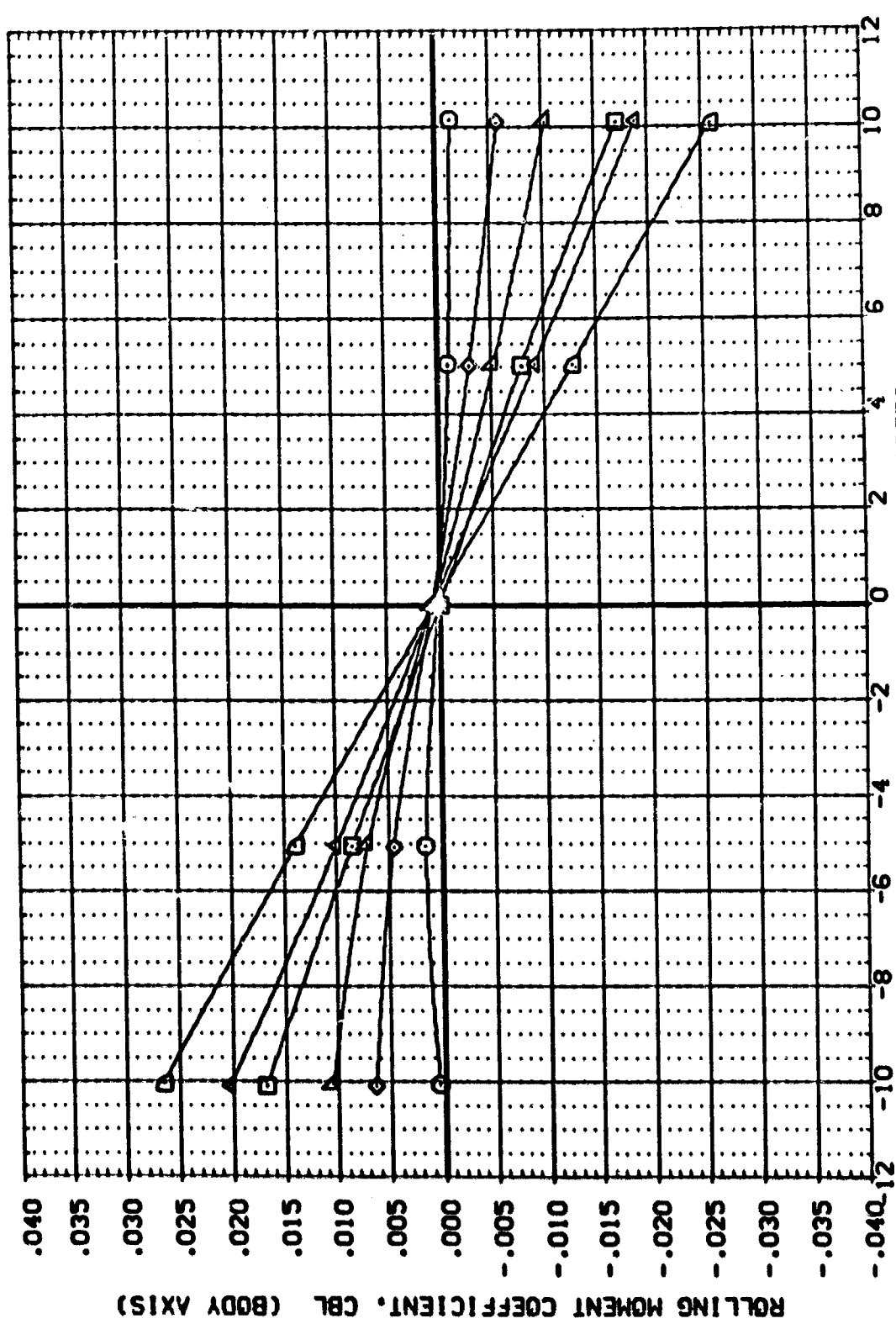


FIG 34 LAT. / DIR. CHARACTERISTICS 4 SINGLE UNDER 2 BODY MOUNT

(A)MACH = .20

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DATA SET SYMBOL	CONFIGURATION	DESCRIPTION	ALPHA	NACA/L	SPDRK	RUDDR	REFERENCE INFORMATION
(R00070)	0A62	B26C9	.000	1.250	.000	.000	SREF 4.4119 SO.FT.
(R00071)	0A62	B26C9	10.000	1.250	.000	.000	LREF 19.2299 INCHES
(R00073)	0A62	B26C9	.000	1.250	.000	.000	BREF 37.9359 INCHES
(R00074)	0A62	B26C9	10.000	1.250	.000	.000	XTRP 43.5974 INCHES
(R00002)	0A62	B26C9	.000	.000	.000	.000	YTRP 15.1875 INCHES
(R00004)	0A62	B26C9	10.000	.000	.000	.000	SCALE .0405

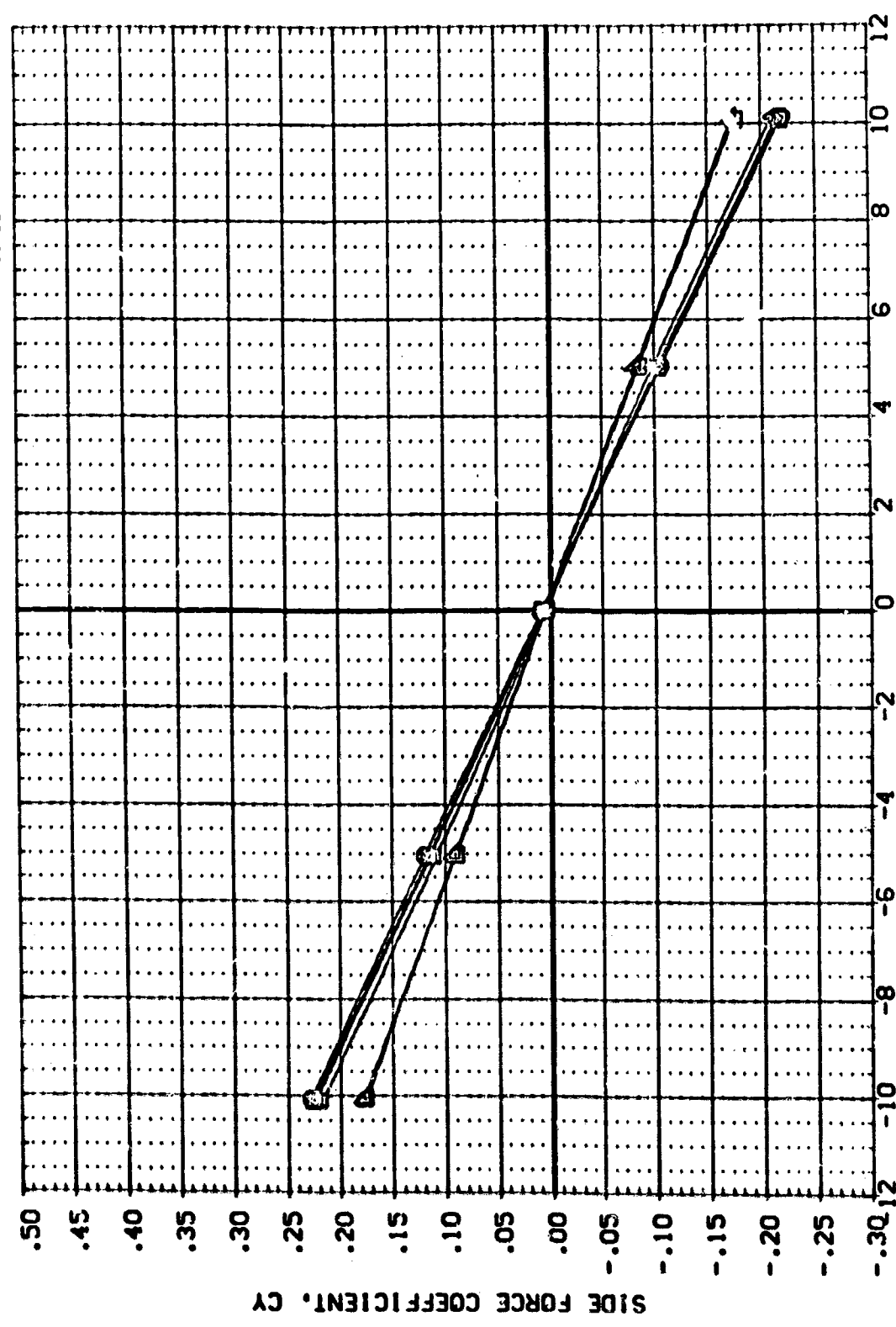


FIG 34 LAT. / DIR. CHARACTERISTICS 4 SINGLE UNDER 2 BODY MOUNT

(A)MACH = .20



DATA SET SYMBOL    CONFIGURATION DESCRIPTION    REFERENCE INFORMATION

(EDV070)	0A62 B26C9	F8J57V116E26V85X10	SREF	4.4119	50. FT.
(EDV073)	0A62 B26C9	F8J58V116E26V85X10	LREF	19.2299	INCHES
(EDV002)	0A62 B26C9	F8 J116E26V85X9	BREF	37.9359	INCHES
			XMRP	43.5974	INCHES
			YMRP	.0000	INCHES
			ZMRP	15.1875	INCHES
			SCALE	.0405	SCALE

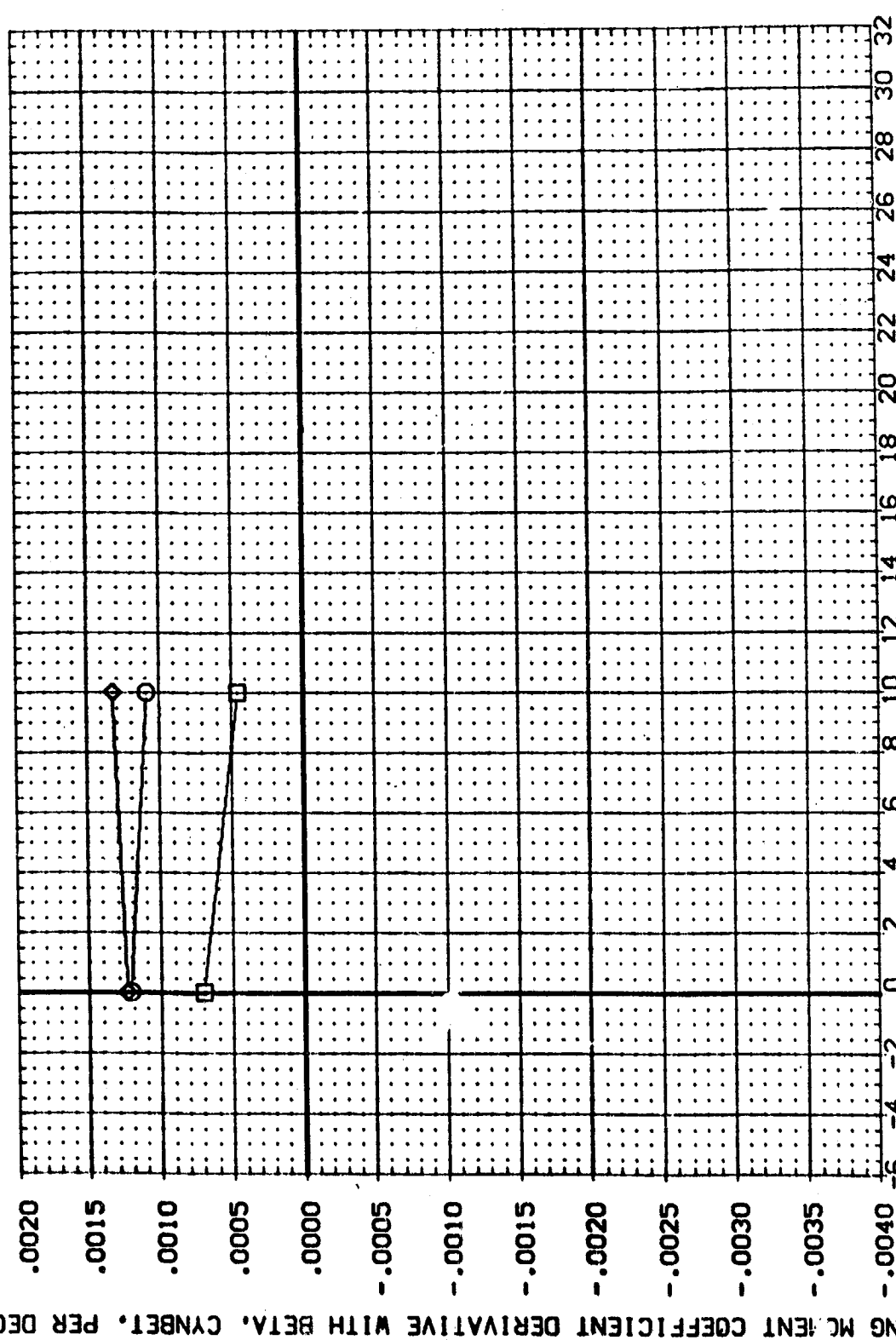


FIG 34 LAT. / DIR. CHARACTERISTICS 4 SINGLE UNDER 2 BODY MOUNT

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NACX/L	ELEVON	BOFLAP	SPDRK	REFERENCE INFORMATION	
(EDV070)	QAS2 B26C9 F8J57V116E2SV8RSX10	1.290	.000	-12.000	.000	SREF	4.4119 SQ. FT.
(EDV073)	QAS2 B26C9 F8J58V116E2SV8RSX10	1.290	.000	-12.000	.000	LREF	19.2299 INCHES
(EDV002)	QAS2 B26C9 F8 V116E2SV8RSX9		.000	-12.000	.000	BREF	37.5359 INCHES
						YMRP	43.5974 INCHES
						ZMRP	.0000 INCHES
						SCALE	15.1875 INCHES
							.0405 SCALE

ROLLING MOMENT COEFFICIENT DERIVATIVE WITH BETA, CBL8ET, PER DEGREE

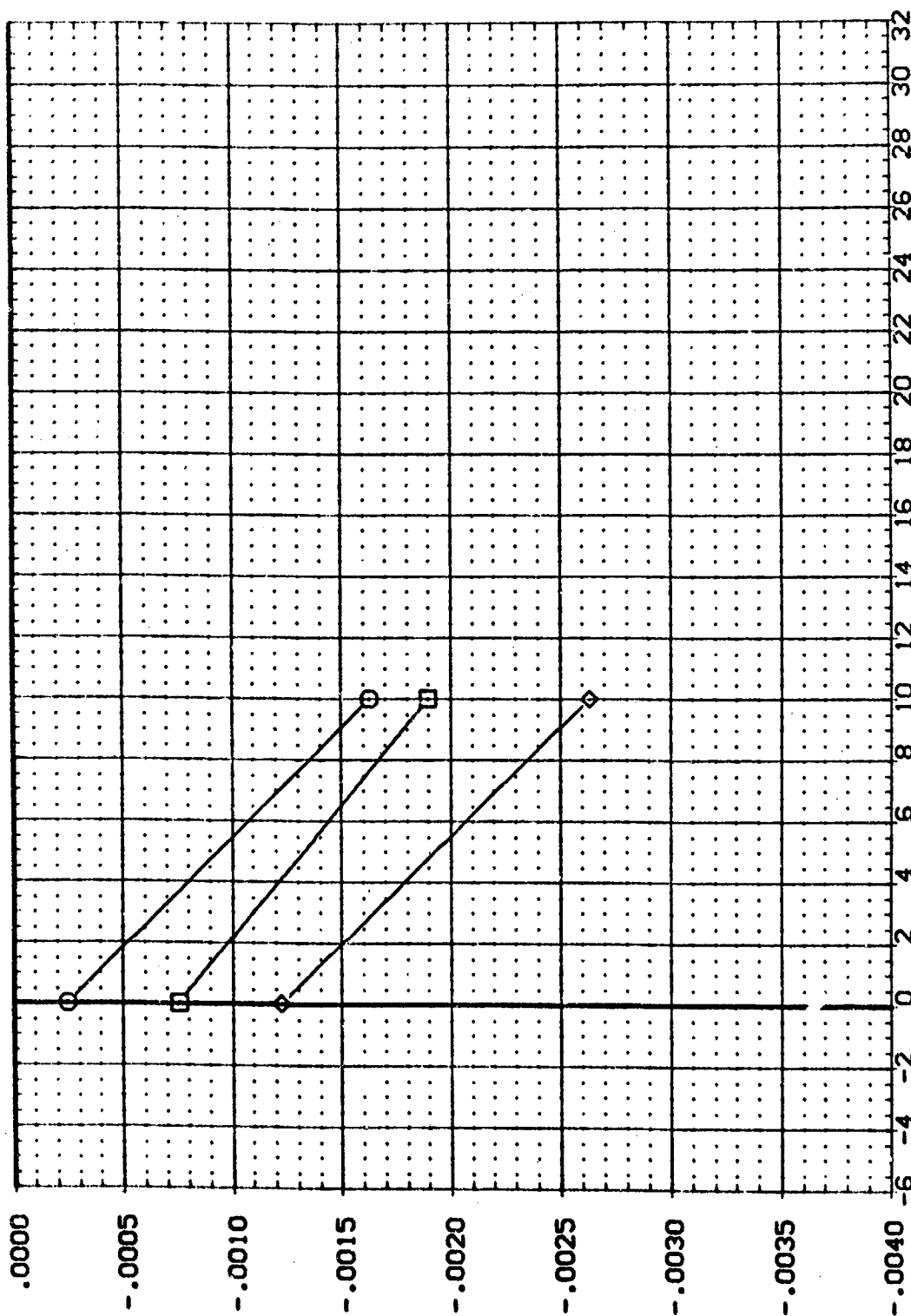


FIG 34 LAT. / DIR. CHARACTERISTICS 4 SINGLE UNDER 2 BODY MOUNT

DATA SET SYMBOL	CONFIGURATION	DESCRIPTION	NACK/L	ELEVON	BOFLAP	SPDBRK	REFERENCE INFORMATION
(EDV070)	CA62	B26C9	1.290	.000	-12.000	.000	SREF 4.4119 SQ.FT.
(EDV073)	CA62	B26C9	1.290	.000	-12.000	.000	LRFP 19.2299 INCHES
(EDV072)	CA62	B26C9		.000	-12.000	.000	BRFP 37.9359 INCHES
							XRFP 43.5974 INCHES
							YRFP .0000 INCHES
							ZRFP 15.1875 INCHES
							SCALE .0405

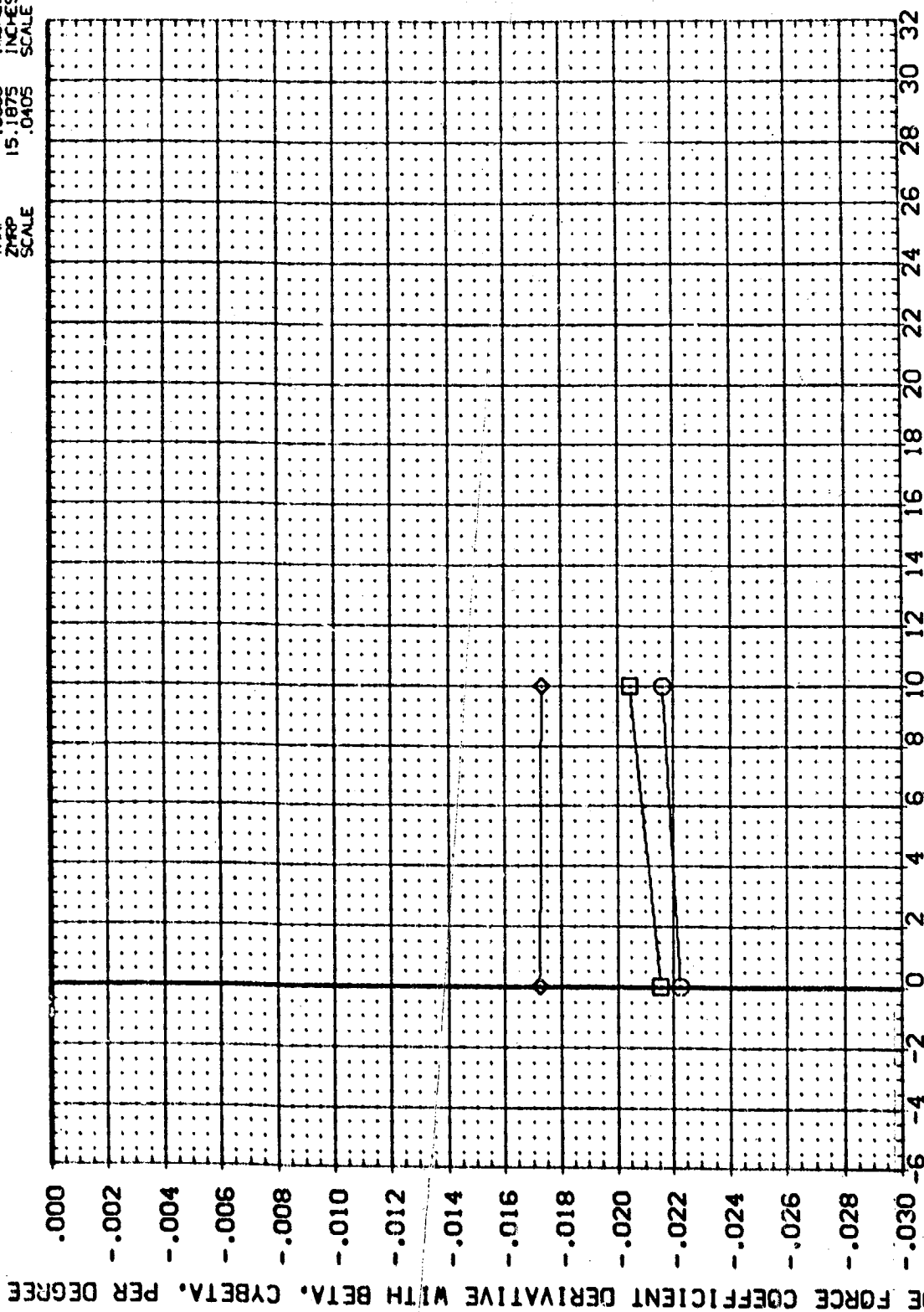


FIG 34 LAT. / DIR. CHARACTERISTICS 4 SINGLE UNDER 2 BODY MOUNT

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(ADW072)	QAS2	B26C9	F8U58V116Z26V85X10
(ADW075)	QAS2	B26C9	F8U58V116Z26V85X10
(ADW001)	QAS2	B26C9	F8U58V116Z26V85X9

NACA/L

1.290	ELEVON	BOFLAP	SPOBRK	REFERENCE INFORMATION
.000	.000	-12.000	.000	SREF 4.4119 SQ.FT.
.000	.000	-12.000	.000	LREF 19.2299 INCHES
.000	.000	-12.000	.000	BREF 37.9359 INCHES
				YMRP 43.5974 INCHES
				ZMRP 15.1875 INCHES
				SCALE .0405

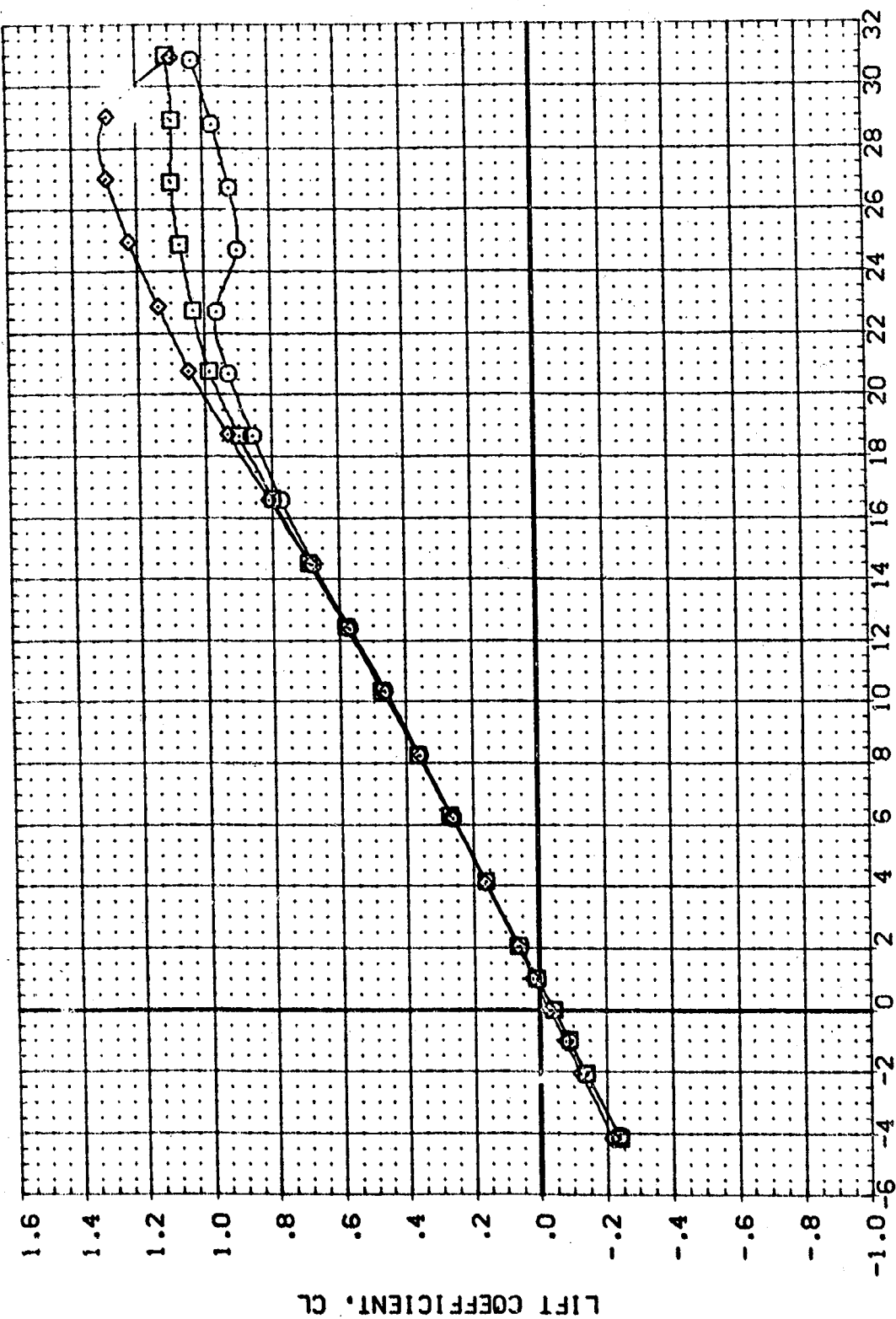


FIG 35 LONGITUDINAL CHARACTERISTICS 6 SINGLE NAC 4 UNDER 2 BODY X0=1120, 850  
 (A)MACH = .20

DATA SET SYMBOL  
(ADV072)  
(ADV075)  
(ADV001)

CONFIGURATION DESCRIPTION  
0A62 B26C9 FB/58V116E26V8R5X10  
0A62 B26C9 FB/58V116E26V8R5X10  
0A62 B26C9 FB V116E26V8R5X9

NACX/L  
1.290  
.000

ELEVON  
.000  
.000  
.000  
-12.000  
-12.000  
-12.000

SPDBRK  
.000  
.000  
.000

REFERENCE INFORMATION  
SREF 4.4119 SQ.FT.  
LREF 19.2299 INCHES  
BREF 37.9359 INCHES  
XMRP 43.5974 INCHES  
YMRP .0000 INCHES  
ZMRP 15.1875 INCHES  
SCALE .0405

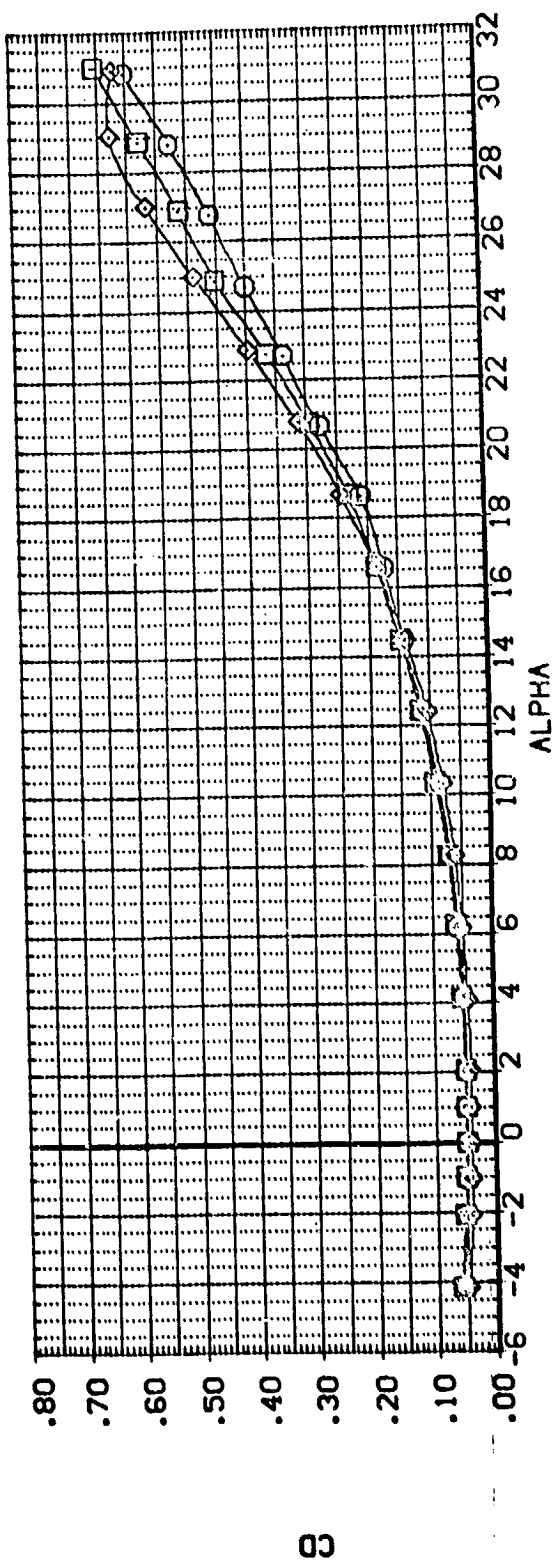
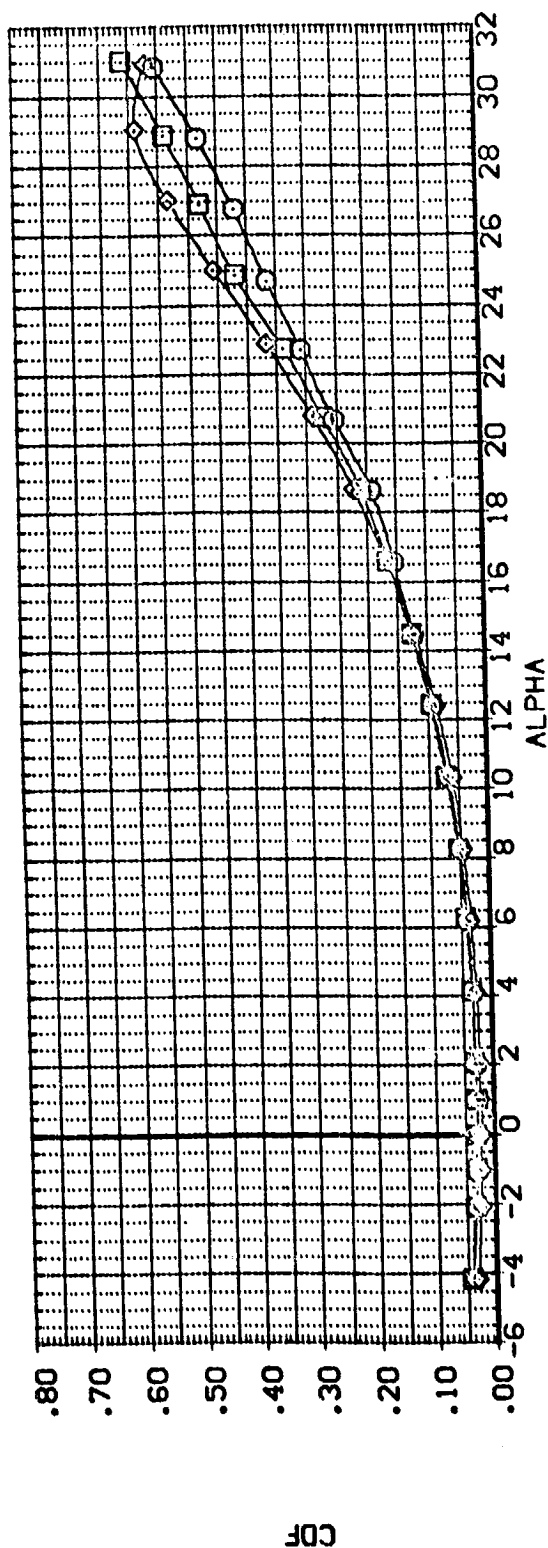
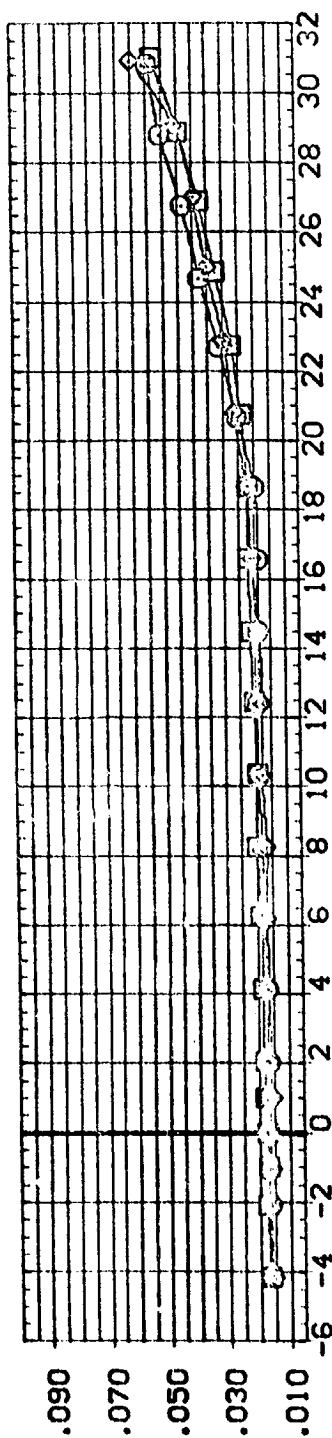


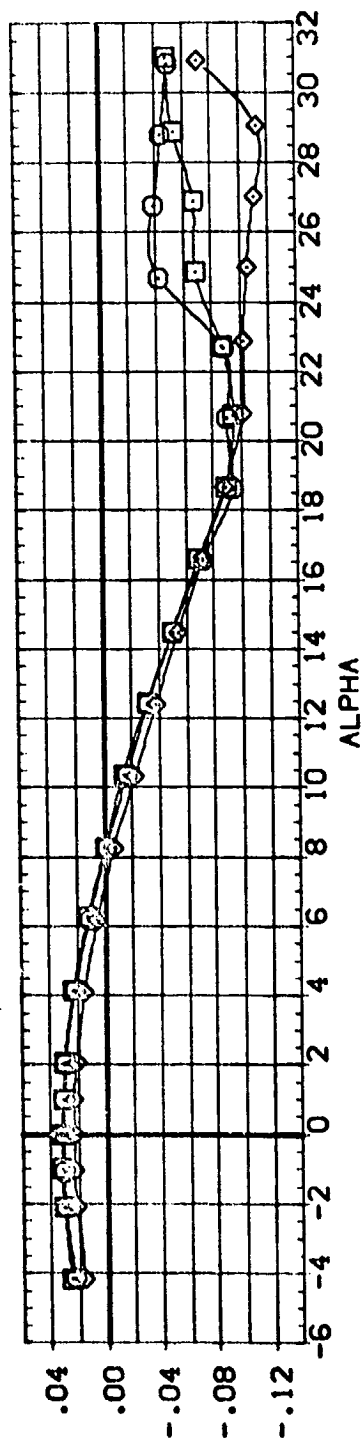
FIG 35 LONGITUDINAL CHARACTERISTICS 6 SINGLE NAC 4 UNDER 2 BODY X0=1120, 850

(A)MACH = .20

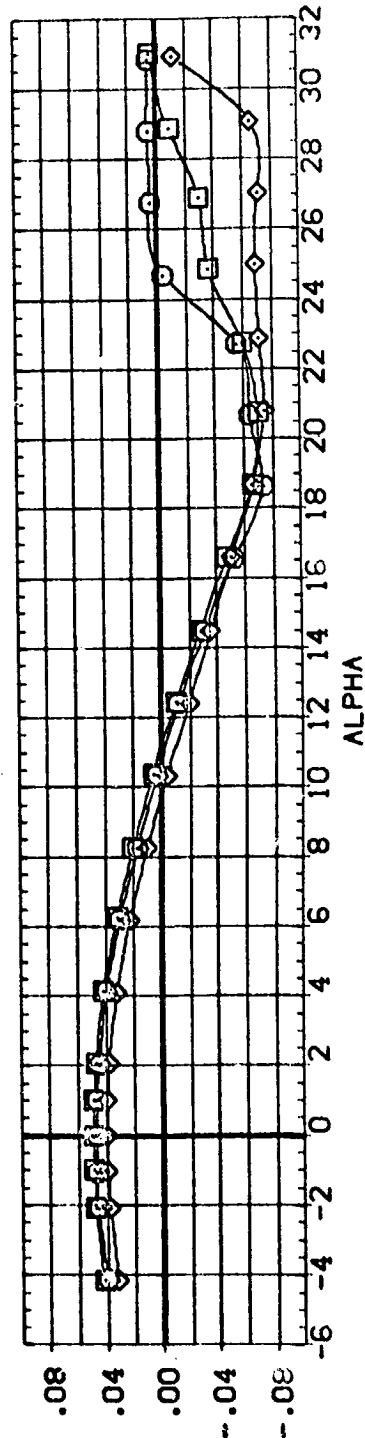
DATA SET SYMBOL	CONFIGURATION	DESCRIPTION	NACA/L	ELEVON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(ADV072)	0A52	B2SC9	1.290	.000	-12.000	.000	SREF 4.4119 SO.FT.
(ACV075)	0A52	B2SC9	.000	.000	-12.000	.000	LREF 19.2293 INCHES
(ACV001)	0A52	B2SC9	.000	.000	-12.000	.000	BREF 37.9359 INCHES
							XMREF 43.5974 INCHES
							YMREF .0000 INCHES
							ZMREF 15.1875 INCHES
							SCALE .0405



CAB



CAF



CA

FIG 35 LONGITUDINAL CHARACTERISTICS 6 SINGLE NAC 4 UNDER 2 BODY XO=1120, 850  
(A)MACH = .20



REFERENCE INFORMATION



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$(A)_{MACH} = .20$



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NACA	ELEVON	BD/LAP	SPOBAR	REFERENCE INFORMATION
(ADV072)	0A62 B26C9	1.290	.000	-12.000	.000	SREF 4.4119 50 FT.
(ADV075)	0A62 B26C9	.000	.000	-12.000	.000	LREF 19.2299 INCHES
(ADV001)	0A62 B26C9		.000	-12.000	.000	BREF 37.9359 INCHES
						XMRP 43.5974 INCHES
						YMRP .0000 INCHES
						ZMRP 15.1875 INCHES
						SCALE .0405 INCHES

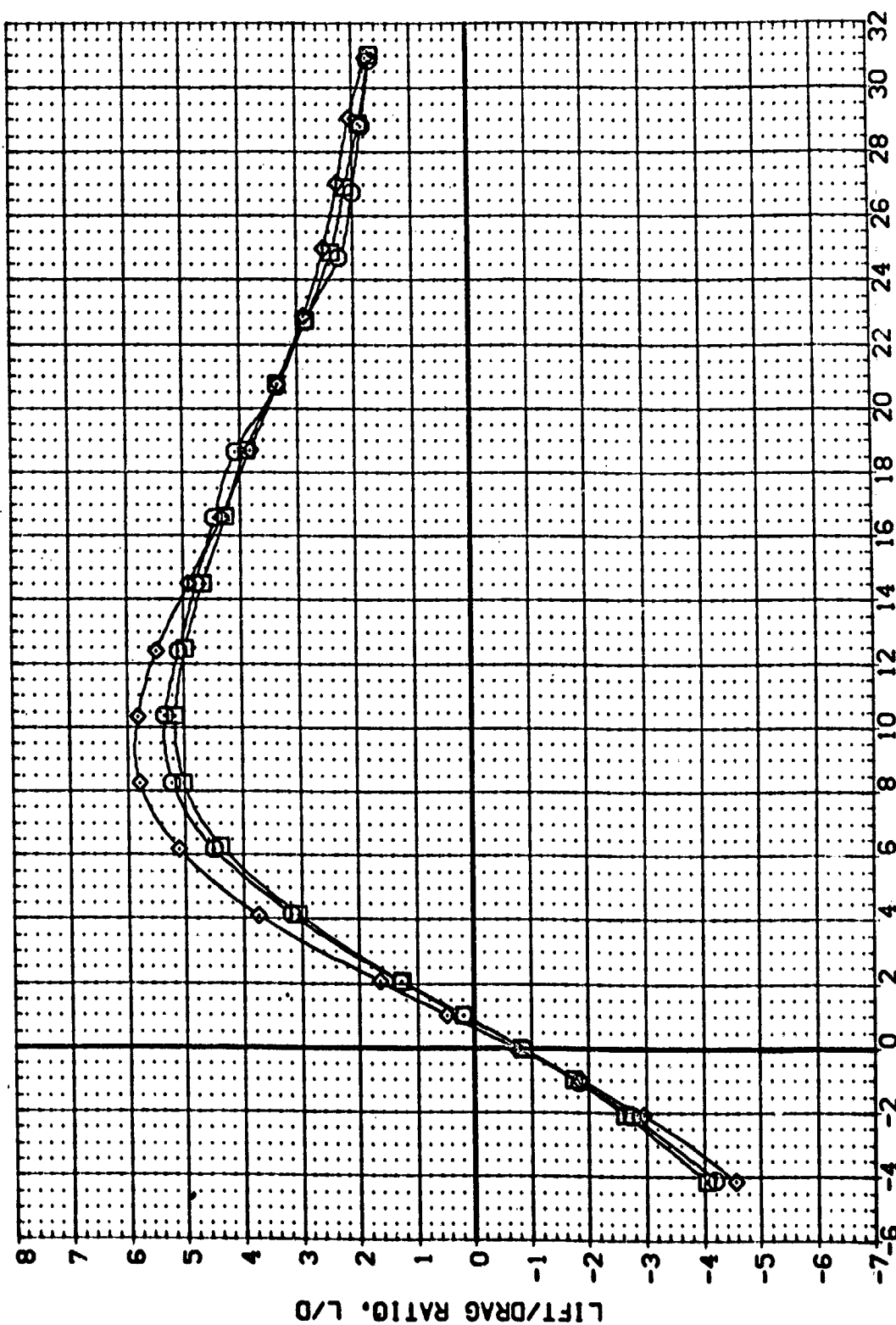


FIG 35 LONGITUDINAL CHARACTERISTICS 6 SINGLE NAC 4 UNDER 2 BODY X0=1120, 850

(A)MACH = .20

DATA SET SYMBOL CONFIGURATION DESCRIPTION

REFERENCE INFORMATION

NACA/L ELEVON BOFLAP SPOBRK

FBUS8V116E26V8K5X10  
FBUS8V116E26V8K5X10  
FB V116E26V8K5X9

OAG2 B2C3  
OAG2 B2C3  
OAG2 B2C3

(ACV072)  
(ACV075)  
(ACV001)

LONGITUDINAL CENTER OF PRESSURE LOCATION, FRACTION BODY LENGTH XCP/L

ANGLE OF ATTACK, ALPHA, DEGREES

(A)MACH = .20

FIG 35 LONGITUDINAL CHARACTERISTICS 6 SINGLE NAC 4 UNDER 2 BODY X0=1120, 850

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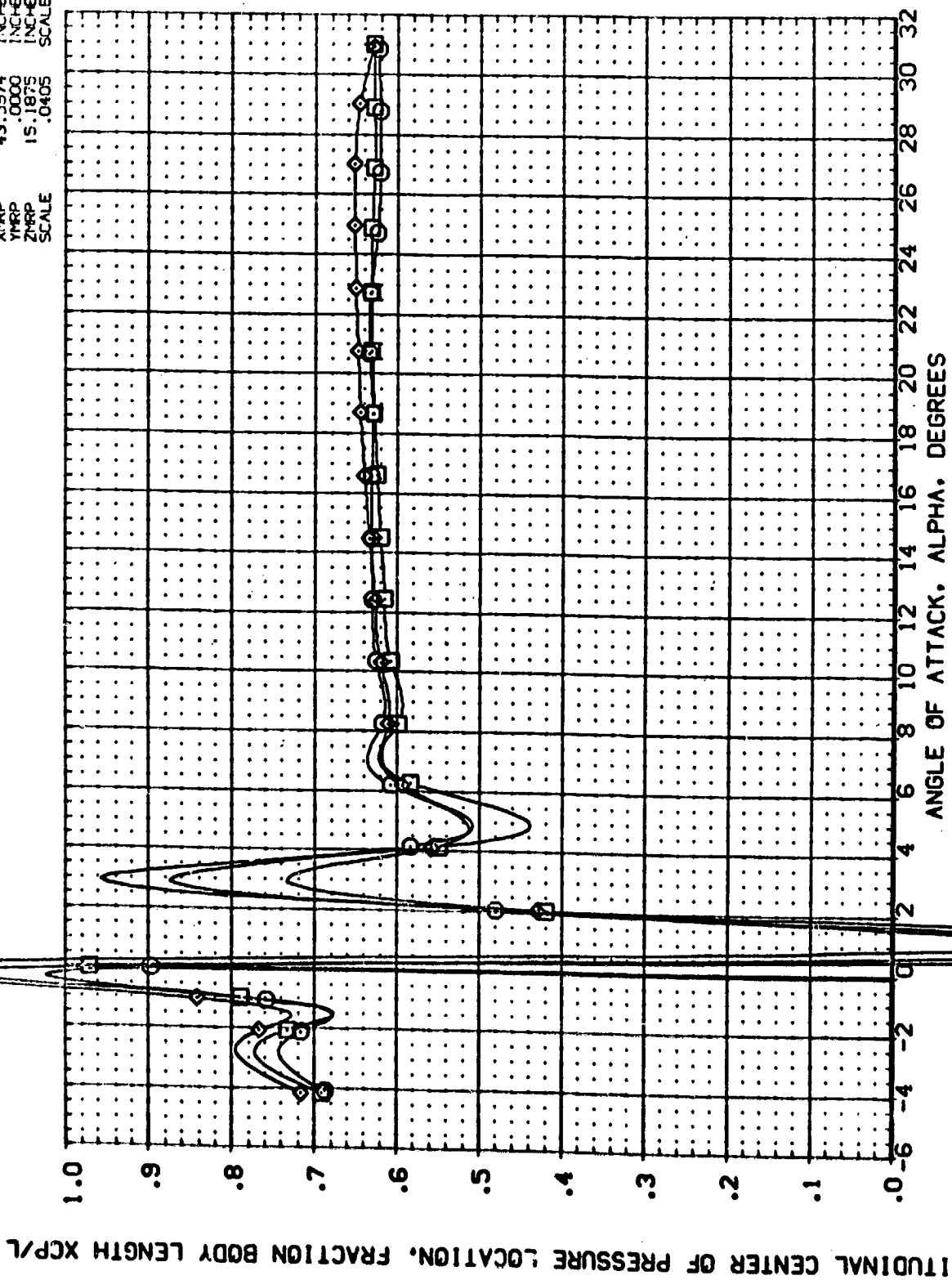


FIG 35 LONGITUDINAL CHARACTERISTICS 6 SINGLE NAC 4 UNDER 2 BODY X0=1120, 850  
(A)MACH = .20



DATA SET SYMBOL CONFIGURATION DESCRIPTION

(ADV072) DAGE2 B26C9 FB/58V116E26V8R5X10  
(ADV075) DAGE2 B26C9 FB/58V116E26V8R5X10  
(ADV001) DAGE2 B26C9 FB V116E26V8R5X9

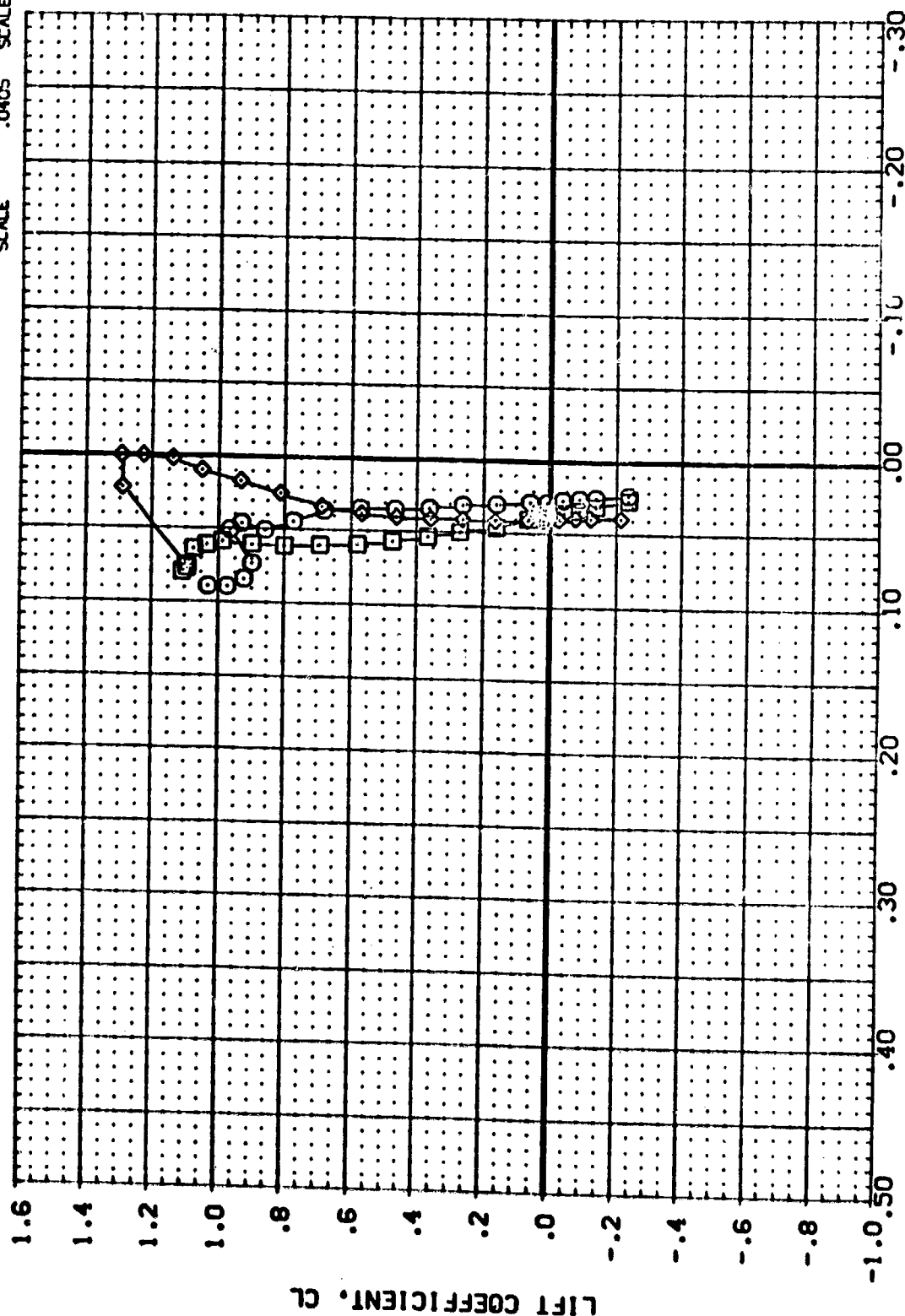
NACA/L  
1.280  
.000

ELEVON  
.000  
.000  
.000

BOFLAP  
-12.000  
-12.000  
-12.000

SPODBK  
.000  
.000  
.000

REFERENCE INFORMATION  
SREF 4.4119 SO.FT.  
LREF 19.2299 INCHES  
BREF 37.9359 INCHES  
XREF 43.5974 INCHES  
YREF .0000 INCHES  
ZREF 15.1875 INCHES  
SCALE .0405



PITCHING MOMENT COEFFICIENT ABOUT FWD CG LIMIT (.65 LB). CLMFW

FIG 35 LONGITUDINAL CHARACTERISTICS 6 SINGLE NAC 4 UNDER 2 BODY X0=1.20, 850

CARMACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	REFERENCE INFORMATION
(ADVT2)	QAG2 B26C9	SREF 4.419 50 FT.
(ADVT3)	QAG2 B26C9	LREF 19.2298 INCHES
(ADVT4)	QAG2 B26C9	BREF 37.9359 INCHES
(ADVT5)	QAG2 B26C9	XMRP 43.5974 INCHES
(ADVT6)	QAG2 B26C9	YMRP .0000 INCHES
(ADVT7)	QAG2 B26C9	ZMRP 15.1875 INCHES
(ADVT8)	QAG2 B26C9	SCALE .0405

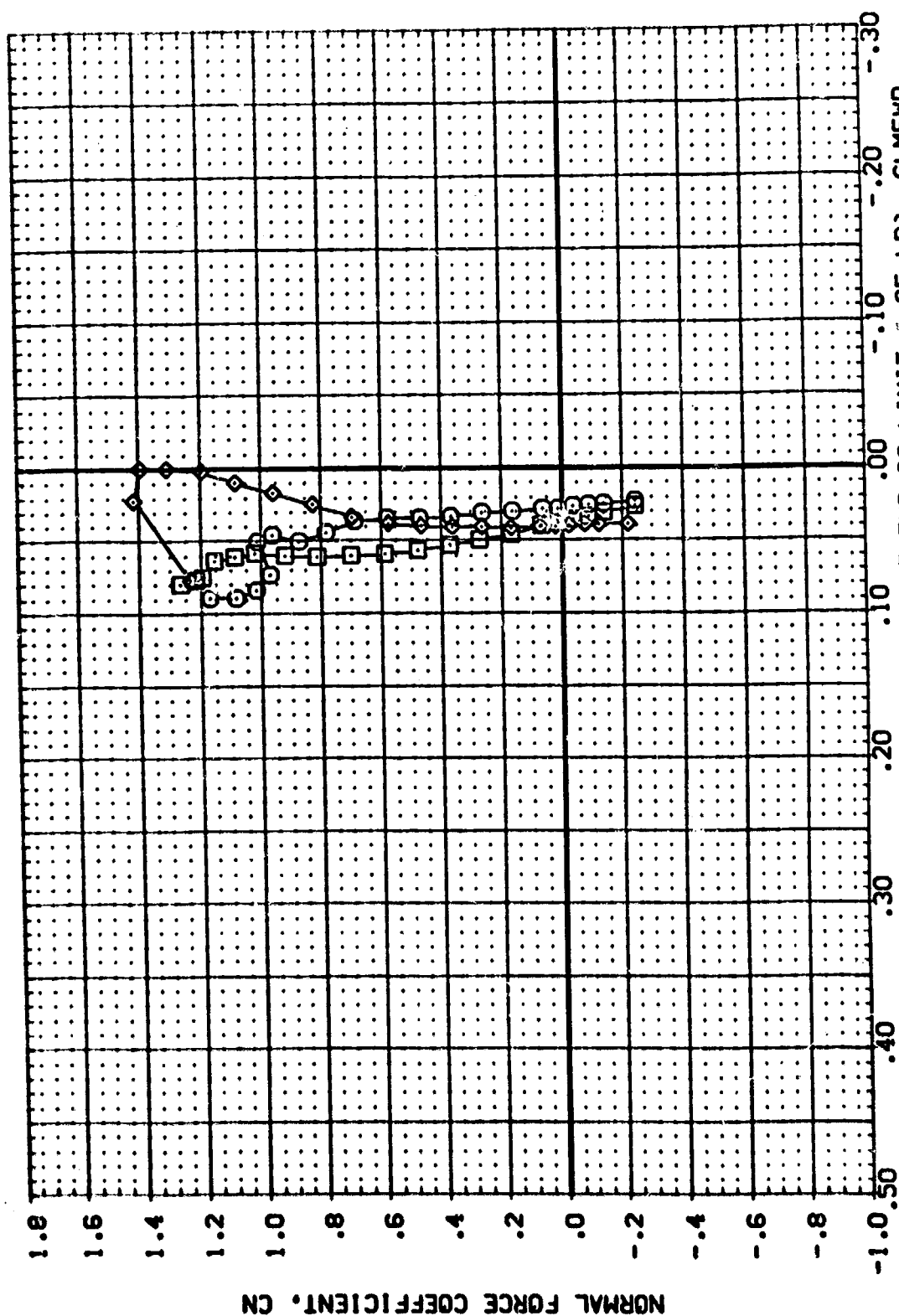


FIG 35 LONGITUDINAL CHARACTERISTICS 6 SINGLE NACA 4 UNDER 2 BODY X0=1120, 850

(A)MACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NACA/L	ELEVON	BD FLAP	SPOONK	REFERENCE INFORMATION
(ADV072)	0A52 826C9 FB/58V116E26V8R5X10	1.200	.000	-12.000	.000	SREF 4.4119 SQ.FT.
(ADV075)	0A52 826C9 FB/58V116E26V8R5X10	.000	.000	-12.000	.000	LREF 19.2299 INCHES
(ADV001)	0A52 826C9 FB V116E26V8R5X9	.000	.000	-12.000	.000	BREF 37.9359 INCHES
						YREF 43.5974 INCHES
						ZREF .0000 INCHES
						SCALE 15.1875 INCHES
						SCALE .0405

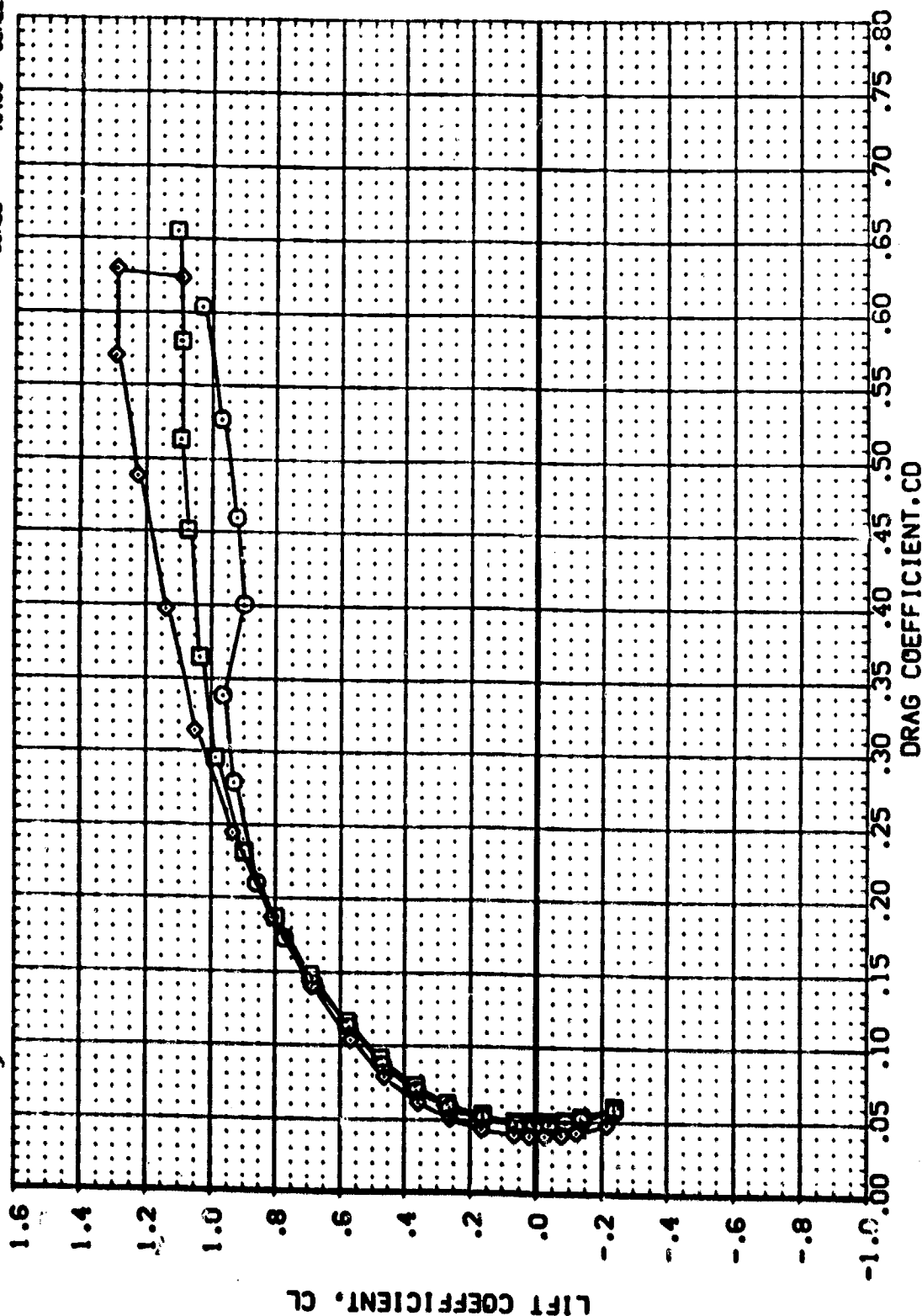


FIG 35 LONGITUDINAL CHARACTERISTICS 6 SINGLE NAC 4 UNDER 2 BODY X0=1120, 850  
(A)MACH = .20

PITCHING MOMENT COEFFICIENT ABOUT AFT CG LIMIT (.675 LB). CLIMAT

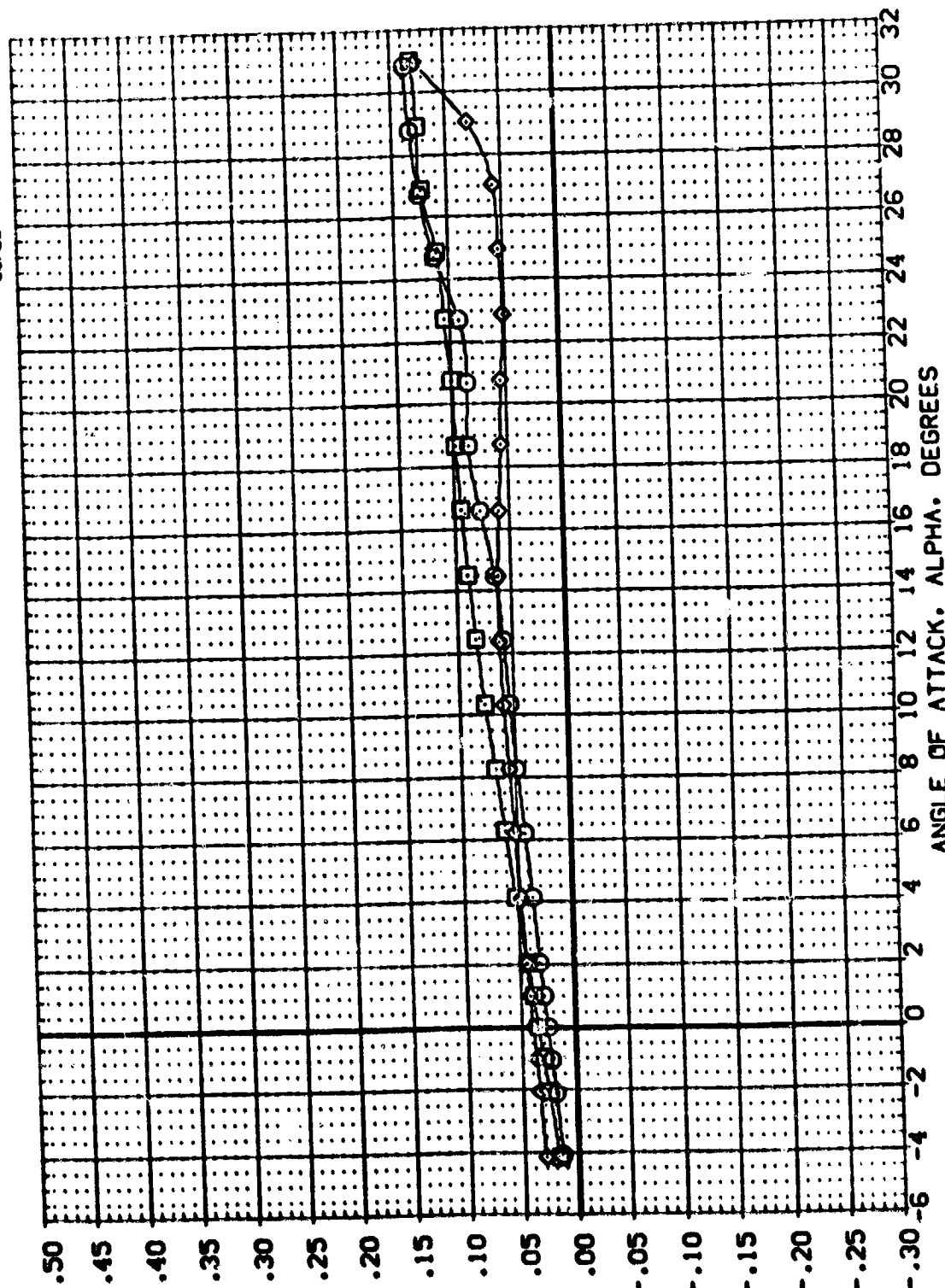


FIG 35  
LONGITUDINAL CHARACTERISTICS 6 SINGLE NAC 4 UNDER 2 BODY XO=1120, 850  
ANGLE OF ATTACK, ALPHA, DEGREES  
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(A)MACH = .20





DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	NACA/L	SPOBRK	RUDDER	REFERENCE INFORMATION
(R0V076)	0A62 B26C9 F8J58V11SE26V8RSX10	.000	.000	.000	.000	SREF 4.4119 SO.FT.
(R0V077)	0A62 B26C9 F8J58V11SE26V8RSX10	10.000	.000	.000	.000	LREF 19.2298 INCHES
(R0V002)	0A62 B26C9 F8 V11SE26V8RSX9	.000	.000	.000	.000	BREF 37.9359 INCHES
(R0V004)	0A62 B26C9 F8 V11SE26V8RSX9	10.000	.000	.000	.000	XMRP 43.5974 INCHES
						YMRP .0000 INCHES
						ZMRP 15.1875 INCHES
						SCALE .0405

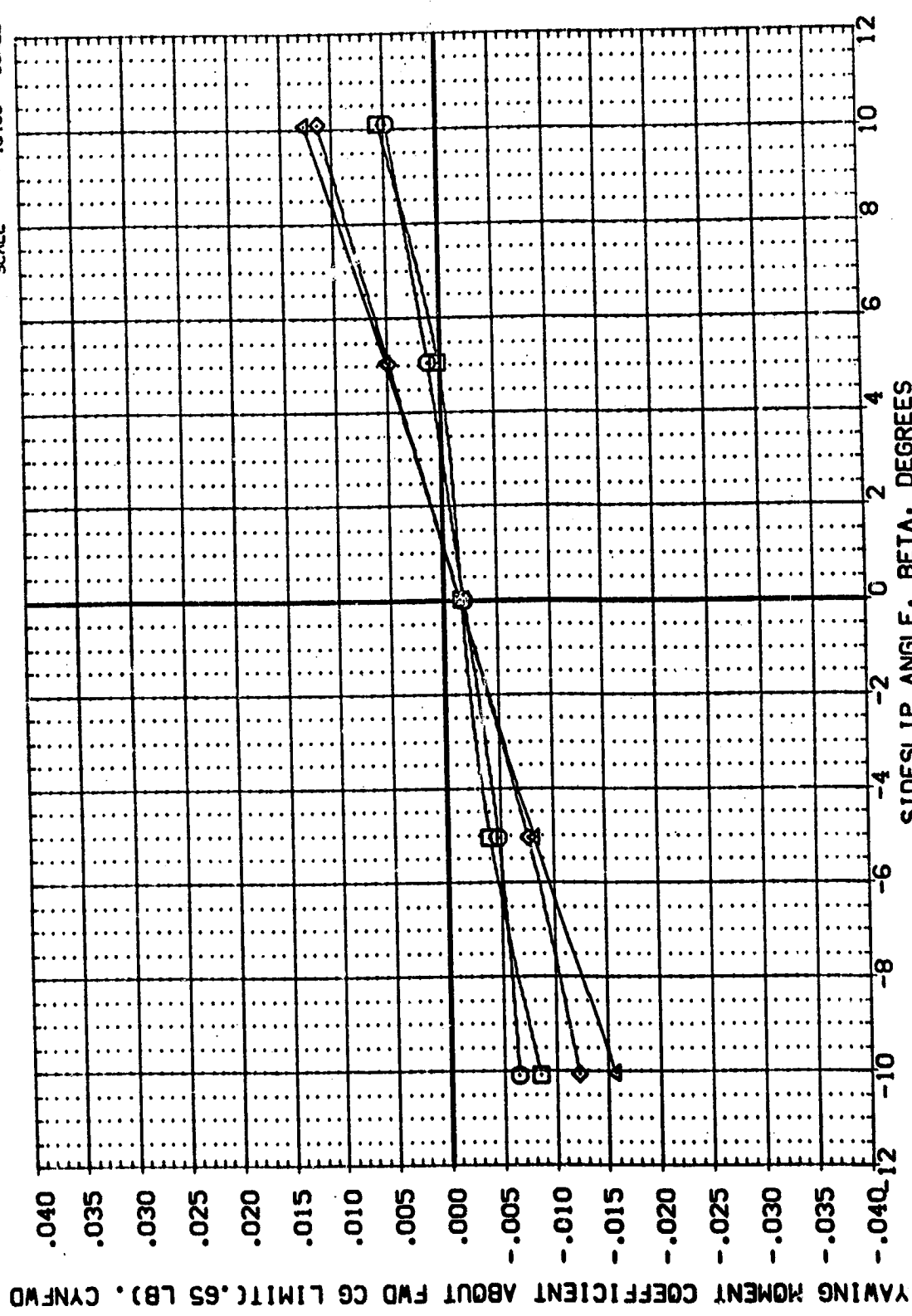


FIG 36 LAT./DIR. CHARACTERISTICS 6 SINGLE NAC 4 UNDER 2 BODY X0 = 850.1100  
 (A)MACH = .20 PAGE 273

# DATA SET SYMBOL CONFIGURATION DESCRIPTION

(RCV076) QAS2 B26C9 FBJSBV11GE26VBR5X10  
 (RCV077) QAS2 B26C9 FBJSBV11GE26VBR5X10  
 (RCV002) QAS2 B26C9 FB JS V11GE26VBR5X9  
 (RCV004) QAS2 B26C9 FB JS V11GE26VBR5X9

ALPHA .000 .000 .000  
 10.000 10.000 10.000  
 10.000 10.000 10.000

NACA/L .000 .000 .000

SPOBRK .000 .000 .000  
 .000 .000 .000  
 .000 .000 .000

RUDDER .000 .000 .000

REFERENCE INFORMATION  
 SREF 4.4119 SQ.FT.  
 LREF 19.2298 INCHES  
 BREF 37.9359 INCHES  
 XMRP 43.5974 INCHES  
 YMRP .0000 INCHES  
 ZMRP 15.1875 INCHES  
 SCALE .0405

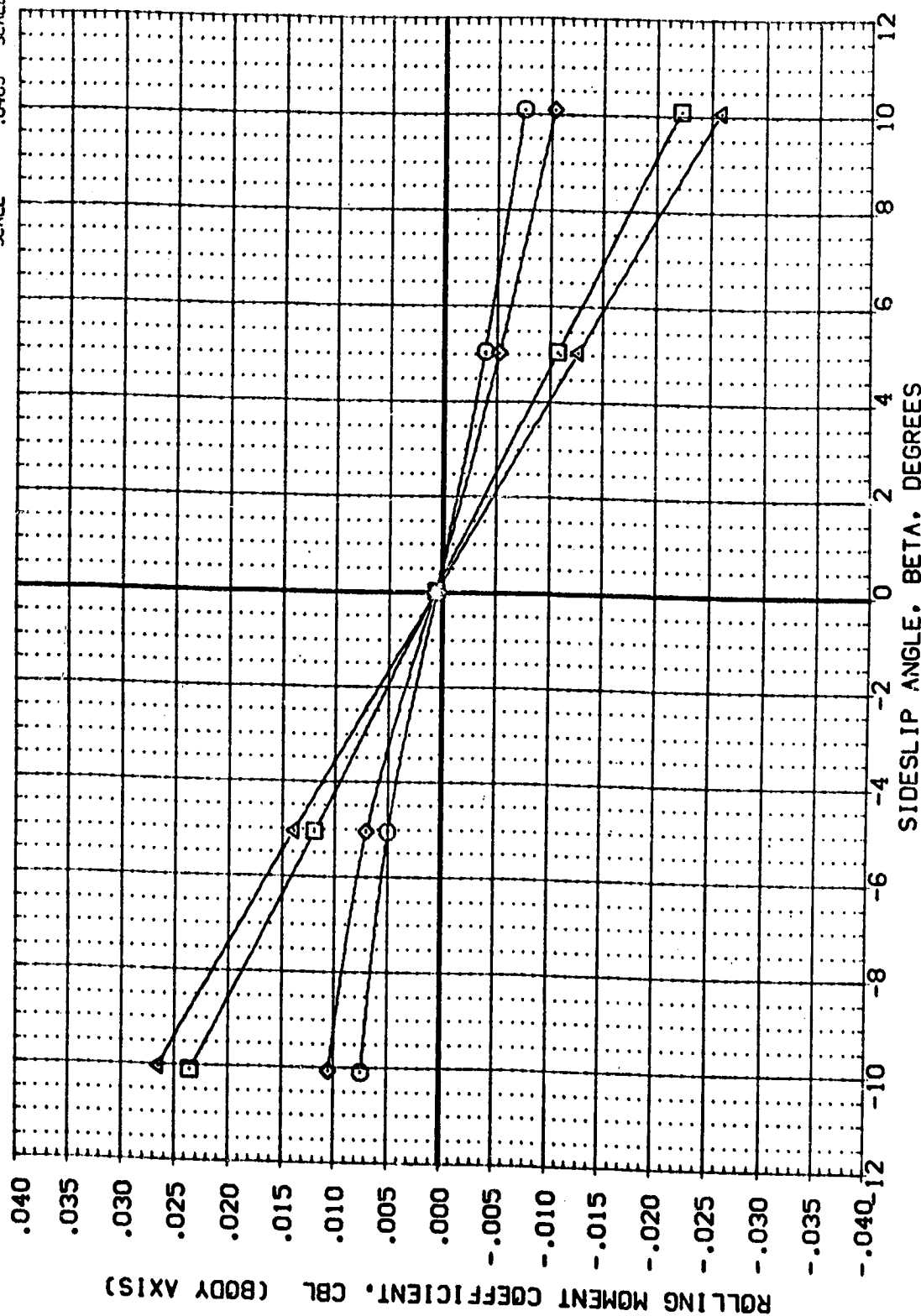


FIG 36 LAT./DIR. CHARACTERISTICS 6 SINGLE NAC 4 UNDER 2 BODY X0 = 850.1100  
 (A)MACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	NACA/L	SPOBRK	RUDDER	REFERENCE INFORMATION
(RDV076)	0A62 B26C9 FB158V116E26VBR5X10	.000	.000	.000	.000	SREF 4.4119 50. FT.
(RDV077)	0A62 B26C9 FB158V116E26VBR5X10	10.000	.000	.000	.000	LREF 19.2298 INCHES
(RDV002)	0A62 B26C9 FB V116E26VBR5X9	.000	.000	.000	.000	BREF 37.9559 INCHES
(RDV004)	0A62 B26C9 FB V116E26VBR5X9	10.000	.000	.000	.000	YMRP 43.5574 INCHES
						ZMRP .0000 INCHES
						SCALE 15.1875 INCHES
						SCALE .0405

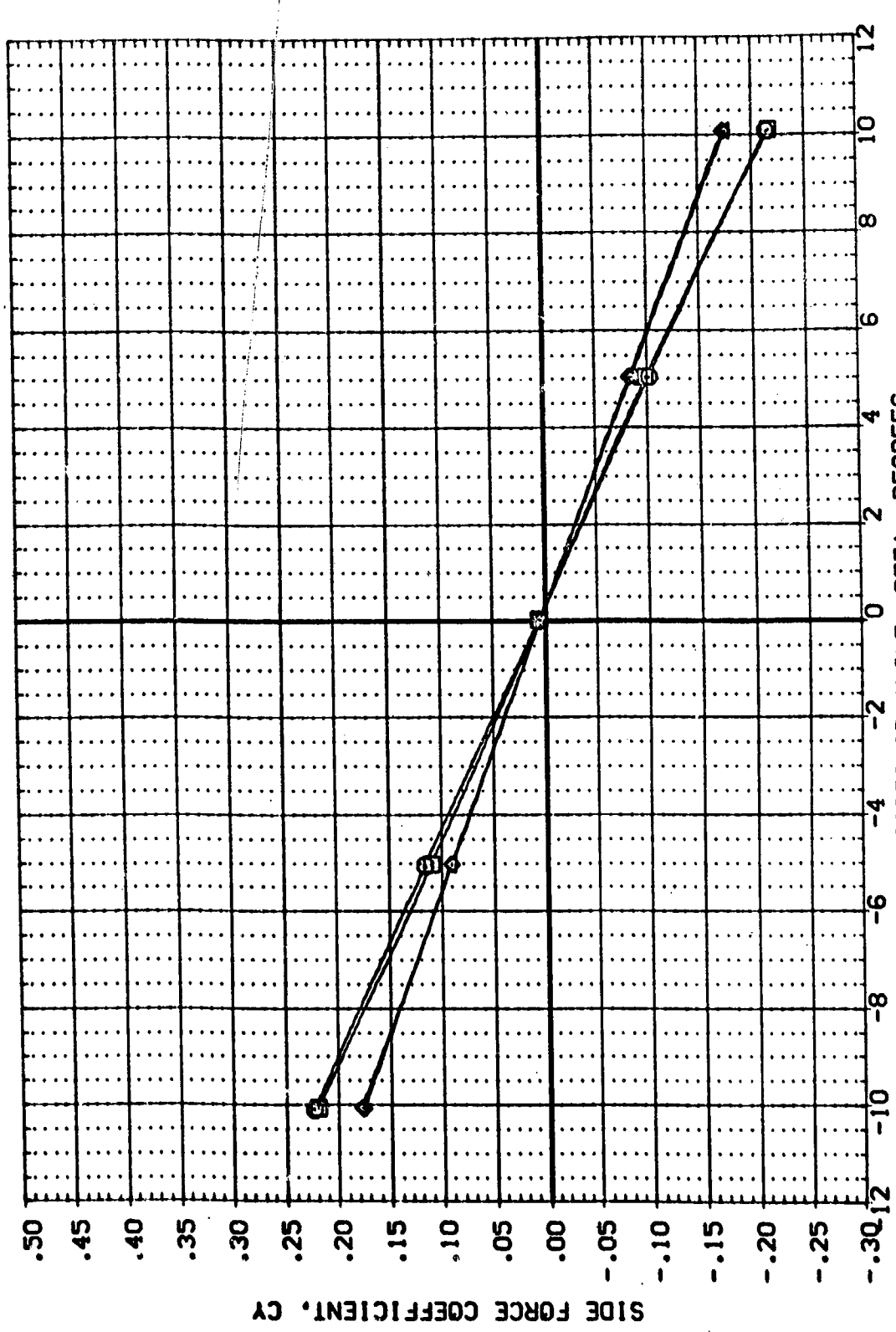
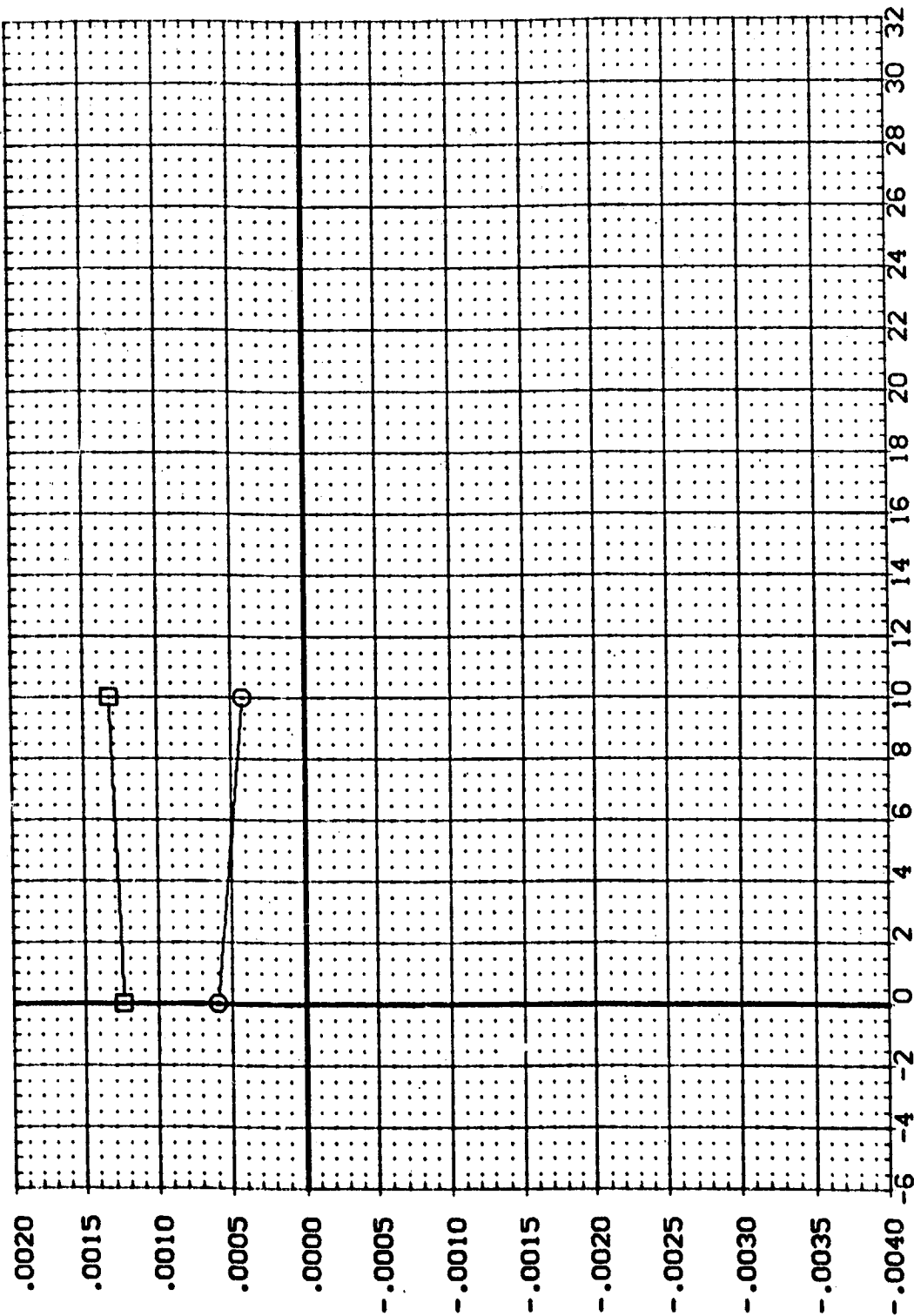


FIG 36 LAT./DIR. CHARACTERISTICS 6 SINGLE NAC 4 UNDER 2 BODY X0 = 850.1100  
 (A)MACH = .20

YAWING MOMENT COEFFICIENT DERIVATIVE WITH BETA, CYMBET, PER DEGREE

DATA SET SYMBOL (EDV076) (EDV002) □  
 CONFIGURATION (B26C9) (B26C9)  
 DESCRIPTION (F8J58V116E26V8RSX10) (F8 V116E26V8RSX9)

NACA/L ELEVON .000 .000 .000 .000  
 BOFLAP -12.000 -12.000  
 SPOBRK .000 .000  
 REFERENCE INFORMATION  
 SREF 4.4119 SQ.FT.  
 LREF 19.2259 INCHES  
 BREF 37.9359 INCHES  
 XMRP 43.5974 INCHES  
 YMRP .0000 INCHES  
 ZMRP 15.1875 INCHES  
 SCALE .0405 INCHES



ANGLE OF ATTACK, ALPHA, DEGREES

FIG 36 LAT./DIR. CHARACTERISTICS 6 SINGLE NAC 4 UNDER 2 BODY XO = 850.1100

DATA SET SYMBOL    CONFIGURATION DESCRIPTION  
 (EDV076)    0462 826C9    FBUS8V116E26V85X10  
 (EDV002)    0462 826C9    FB    V116E26V85X9

NACK/L    ELEVON    BOFLAP    SPOBRK  
 .000    .000    -12.000    .000  
          .000    -12.000    .000

REFERENCE INFORMATION  
 SREF    4.4119    50. FT.  
 LREF    19.2239    INCHES  
 BREF    37.9359    INCHES  
 XMRP    43.5974    INCHES  
 YMRP    .0000    INCHES  
 ZMRP    15.1875    INCHES  
 SCALE    .0405    SCALE

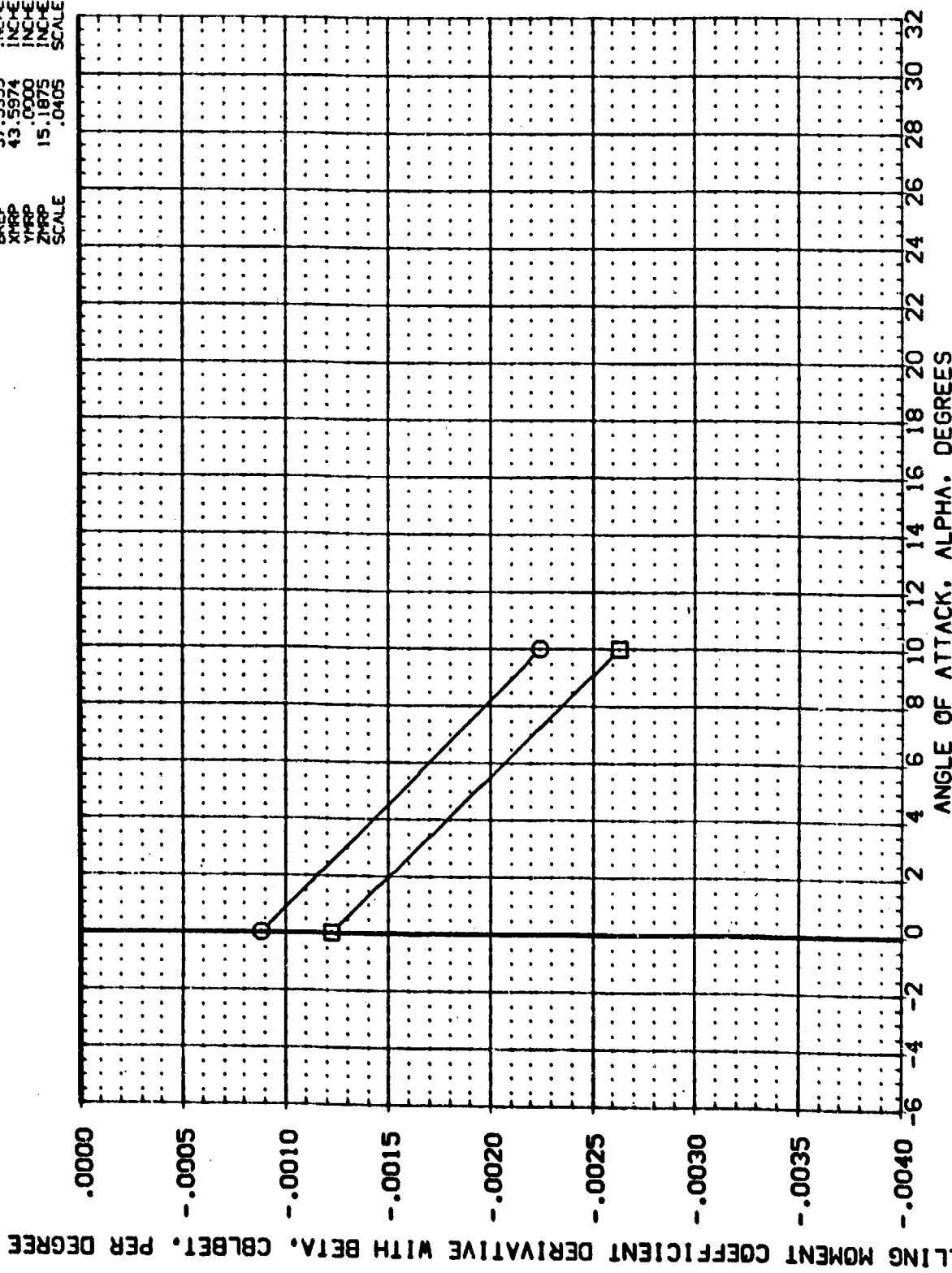


FIG 36 LAT./DIR. CHARACTERISTICS 6 SINGLE NAC 4 UNDER 2 BODY X0 = 850.1100

DATA SET SYMBOL: (EDV076) (EDV002)

CONFIGURATION DESCRIPTION: DAS2 B2SC9 F8 V116Z6V8K5X9

REFERENCE INFORMATION: SREF 4.4119 SQ.FT. LREF 19.2398 INCHES XMRP 37.9359 INCHES YMRP 43.5974 INCHES ZMRP .0000 INCHES SCALE 15.1875 INCHES .0405

NACA/L: .000

ELEVON: .000

BOFLAP: .000

SPDRK: .000

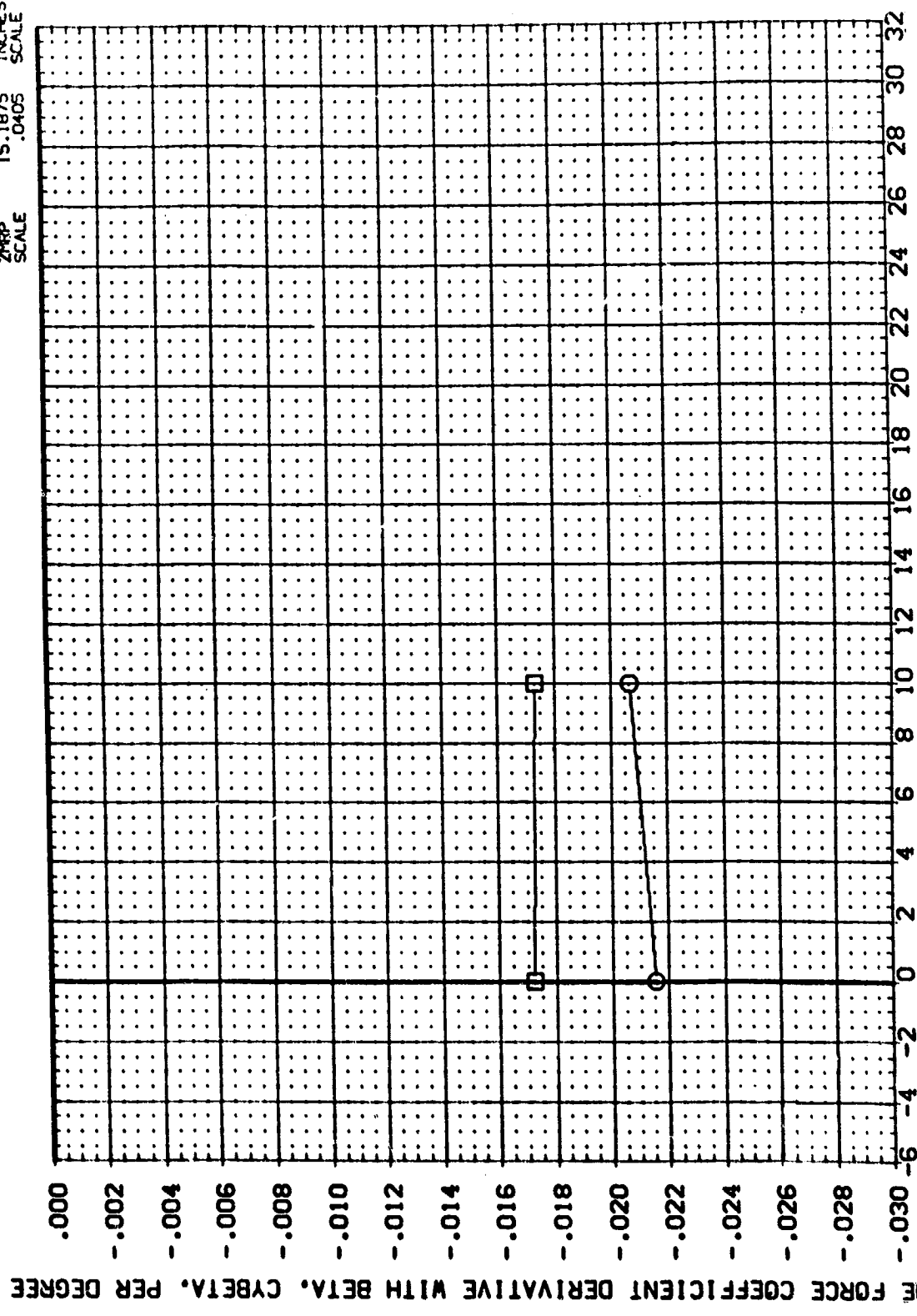


FIG 36 LAT./DIR. CHARACTERISTICS 6 SINGLE NAC 4 UNDER 2 BODY X0 = 850.1100

ANGLE OF ATTACK, ALPHA, DEGREES

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DATA SET SYMBOL		CONFIGURATION DESCRIPTION		NACA/L		ELEVON		BOFLAP		SPDRBK		REFERENCE INFORMATION			
(ADV090)	Q462	B26C9	F8J48V116E26V8K5X10	.730	.000	-12.000	.000	SREF	4.4119	SO.FT.					
(ADV078)	Q462	B26C9	F8J48V116E26V8K5X10	.730	.000	-12.000	.000	LREF	19.2288	INCHES					
								BRFP	37.9359	INCHES					
								YMRP	43.5974	INCHES					
								ZMRP	.0000	INCHES					
								SCALE	15.1875	INCHES					
									.0405	SCALE					

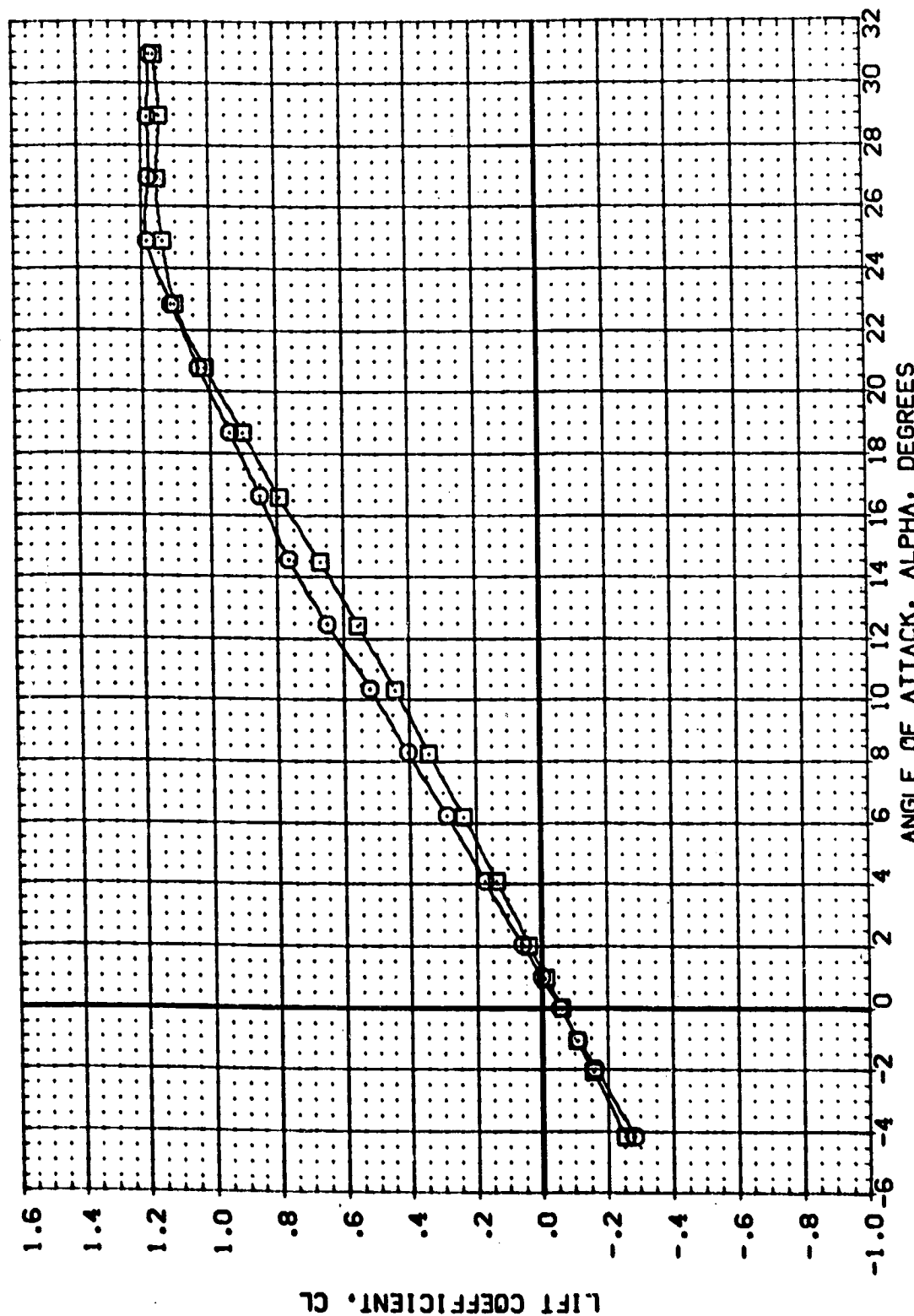


FIG 37 LONGITUDINAL CHAR. WING EXTENSIONS 3 CLUSTERS FLUSH MOUNT X0 = 1100  
 (A)MACH = .20 PAGE 279

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NACA	ELEVON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(ADW080)	QAE2 B26C9	.730	.000	-12.000	.000	SREF 4.4119 50. FT.
(ADW078)	QAE2 B26C9	.730	.000	-12.000	.000	LREF 19.2298 INCHES
						BREF 37.9359 INCHES
						XMRP 43.5574 INCHES
						YMRP .0000 INCHES
						ZMRP 15.1875 INCHES
						SCALE .0405

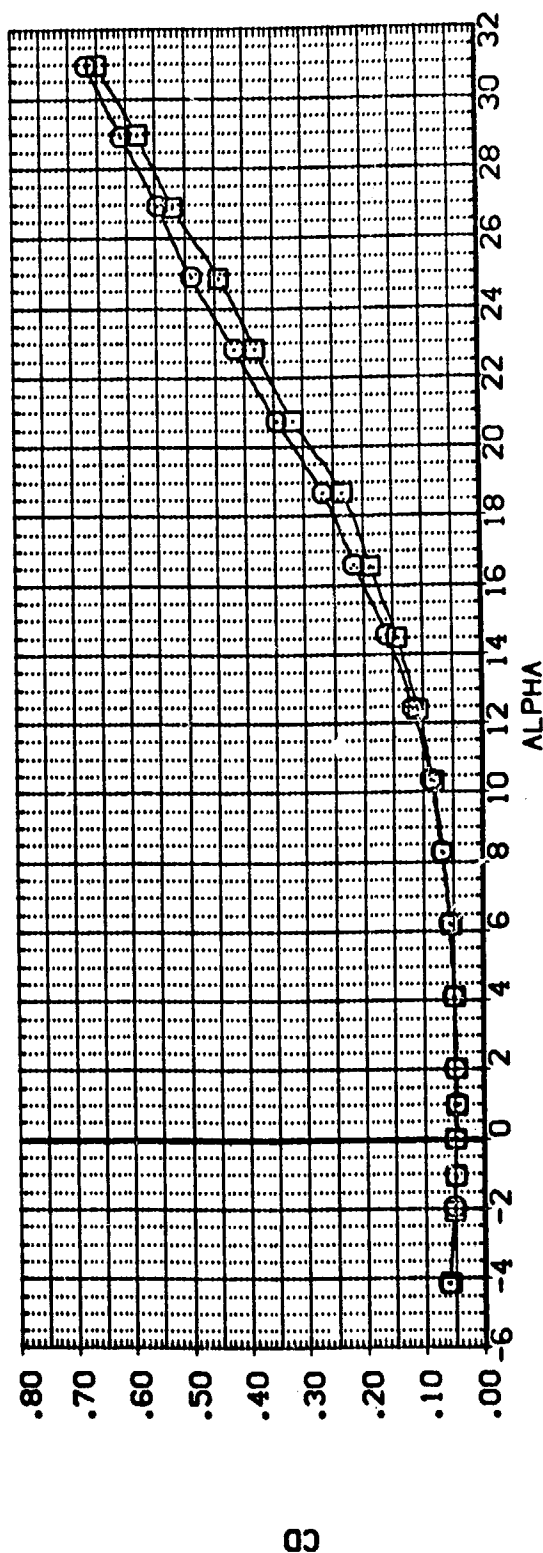
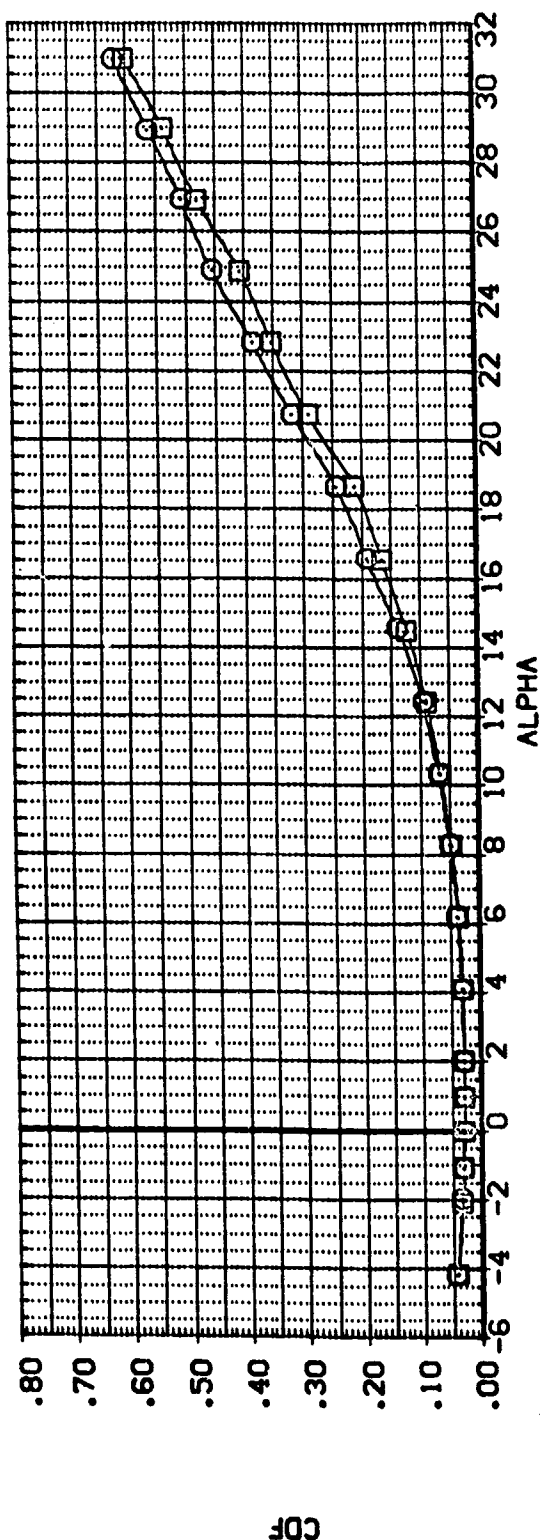


FIG 37 LONGITUDINAL CHAR. WING EXTENSIONS 3 CLUSTERS FLUSH MOUNT X0 = 1100  
 (A)MACH = .20



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NACA/L	ELEVON	BOFLAP	SPDRBK	REFERENCE INFORMATION			
						SREF	4.4119	SO.FT.	
(ADM090)	0A62 B26C9	.730	.000	-12.000	.000	LREF	19.2299	INC-ES	
(ADV078)	0A62 B26C9	.730	.000	-12.000	.000	BREF	37.9359	INC-ES	
						XTRP	43.5974	INC-ES	
						YTRP	.0000	INC-ES	
						ZTRP	15.1875	INC-ES	
						SCALE	.0405	SCALE	

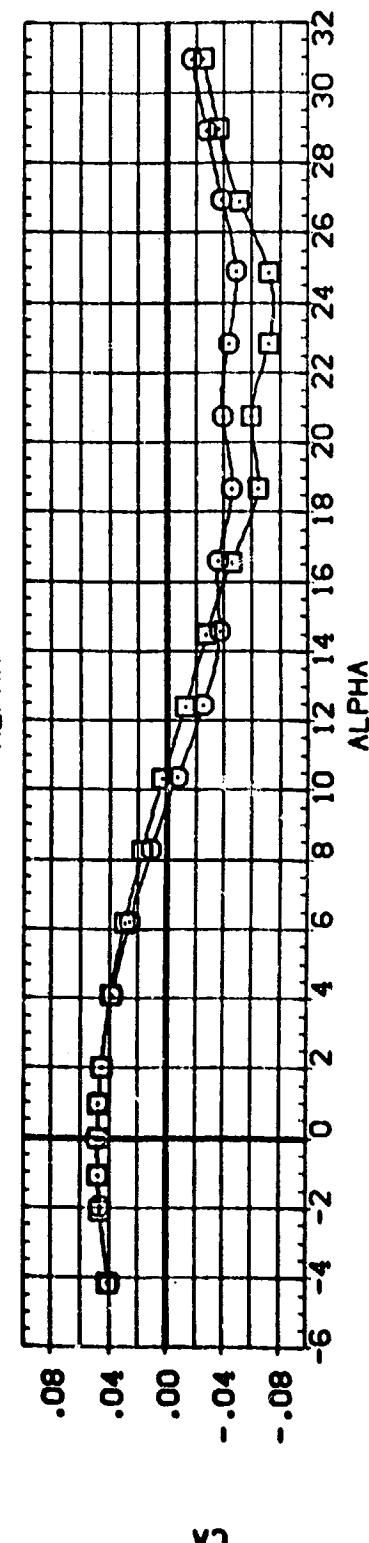
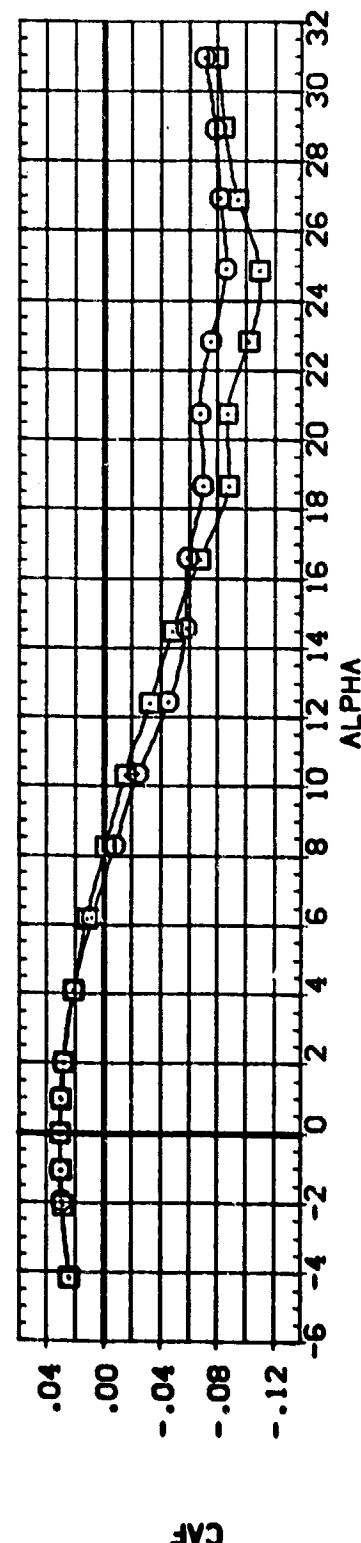
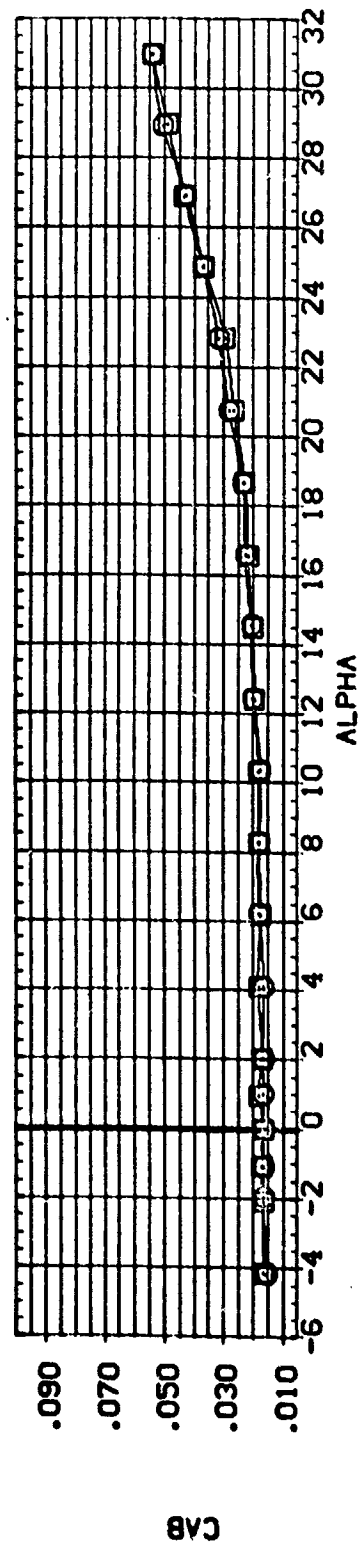


FIG 37 LONGITUDINAL CHAR. WING EXTENSIONS 3 CLUSTERS FLUSH MOUNT X0 = 1100  
 (A)MACH = .20 PAGE 281

DATA SET SYMBOL (ADV090) (ADV078)

CONFIGURATION DESCRIPTION  
 0A62 826C9 FB448V116E26V85X10  
 0A62 826C9 FB445V116E26V85X10

WACX/L .730  
 ELEVON .000  
 BOFLAP -12.000

SPDRK .000  
 SREF 4.4119  
 LREF 19.2298  
 BREF 37.9359  
 XMRP 43.5974  
 YMRP .0000  
 ZMRP 15.1875  
 SCALE .0405

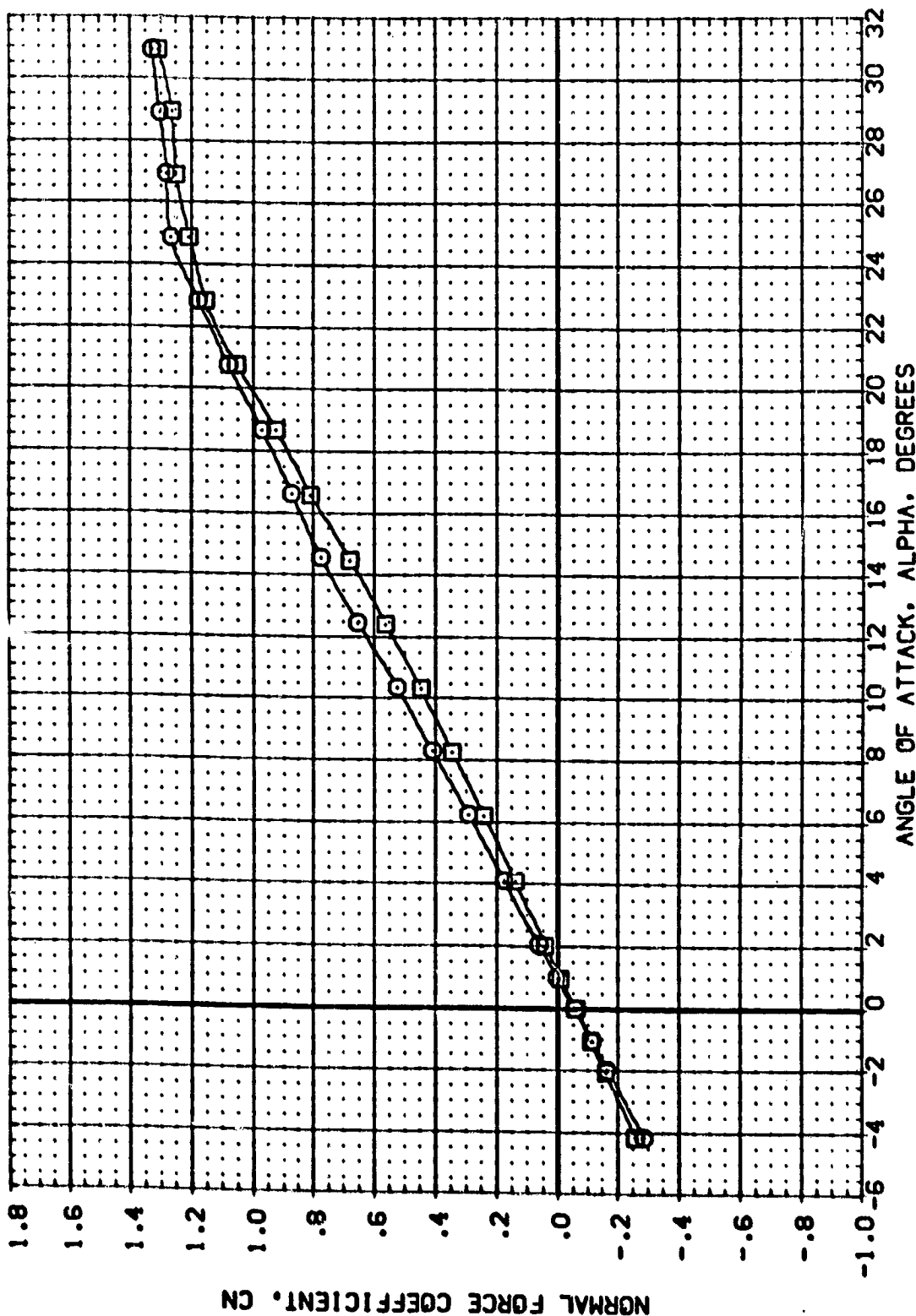


FIG 37 LONGITUDINAL CHAR. WING EXTENSIONS 3 CLUSTERS FLUSH MOUNT X0 = 1100  
 (A)MACH = .20

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		MAC/L		ELEVON		EDFLAP		SPDBRK		REFERENCE INFORMATION	
(ADV090)	Q462	B26C9	F8J48V11BE26V8RSX10	.730	.000	.000	.000	.000	.000	.000	SREF	4.4119	50. FT.
(ADV078)	Q462	B26C9	F8J48V11BE26V8RSX10	.730	.000	.000	.000	.000	.000	.000	LREF	19.2298	INCHES
											BREF	37.5359	INCHES
											XMRP	43.5974	INCHES
											YMRP	.0000	INCHES
											ZMRP	15.1875	INCHES
											SCALE	.0405	SCALE

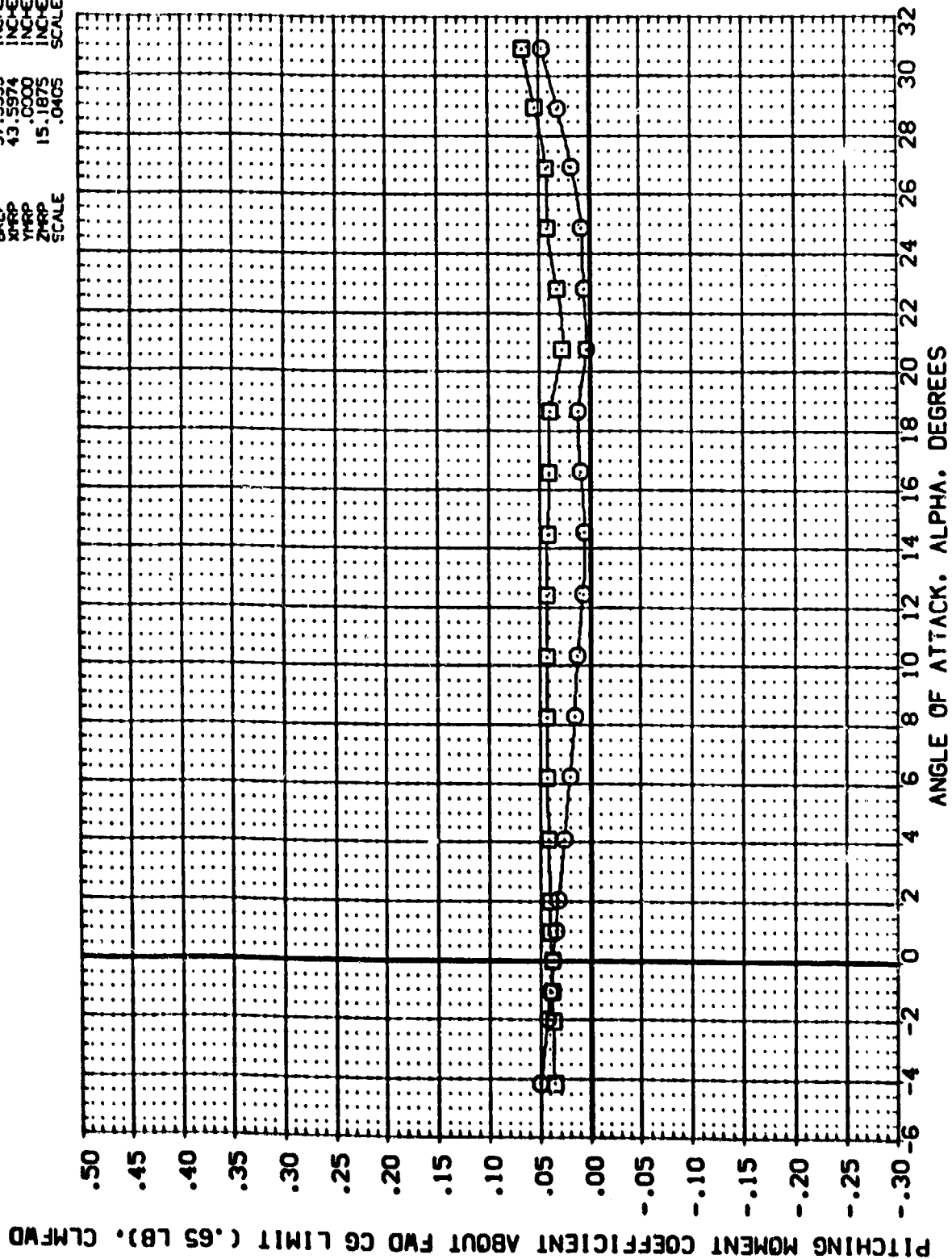


FIG 37 LONGITUDINAL CHAR. WING EXTENSIONS 3 CLUSTERS FLUSH MOUNT XO = 1100  
 (A)MACH = .20 PAGE 283

DATA SET SYMBOL: (ADV030) (ADV078)

CONFIGURATION DESCRIPTION: DA62 B26C9 DA62 B26C9

FB/48V116E26V8FSX10 FB/48V116E26V8FSX10

NACA/L: .730 .730

ELEVON: .000 .000

BOFLAP: -12.000 -12.000

SPOBRK: .000 .000

REFERENCE INFORMATION:

SREF: 4.4119 50.FT.

LREF: 19.2259 INCHES

BREF: 37.9359 INCHES

XTRP: 43.5974 INCHES

YTRP: .0000 INCHES

ZTRP: 15.1875 INCHES

SCALE: .0405

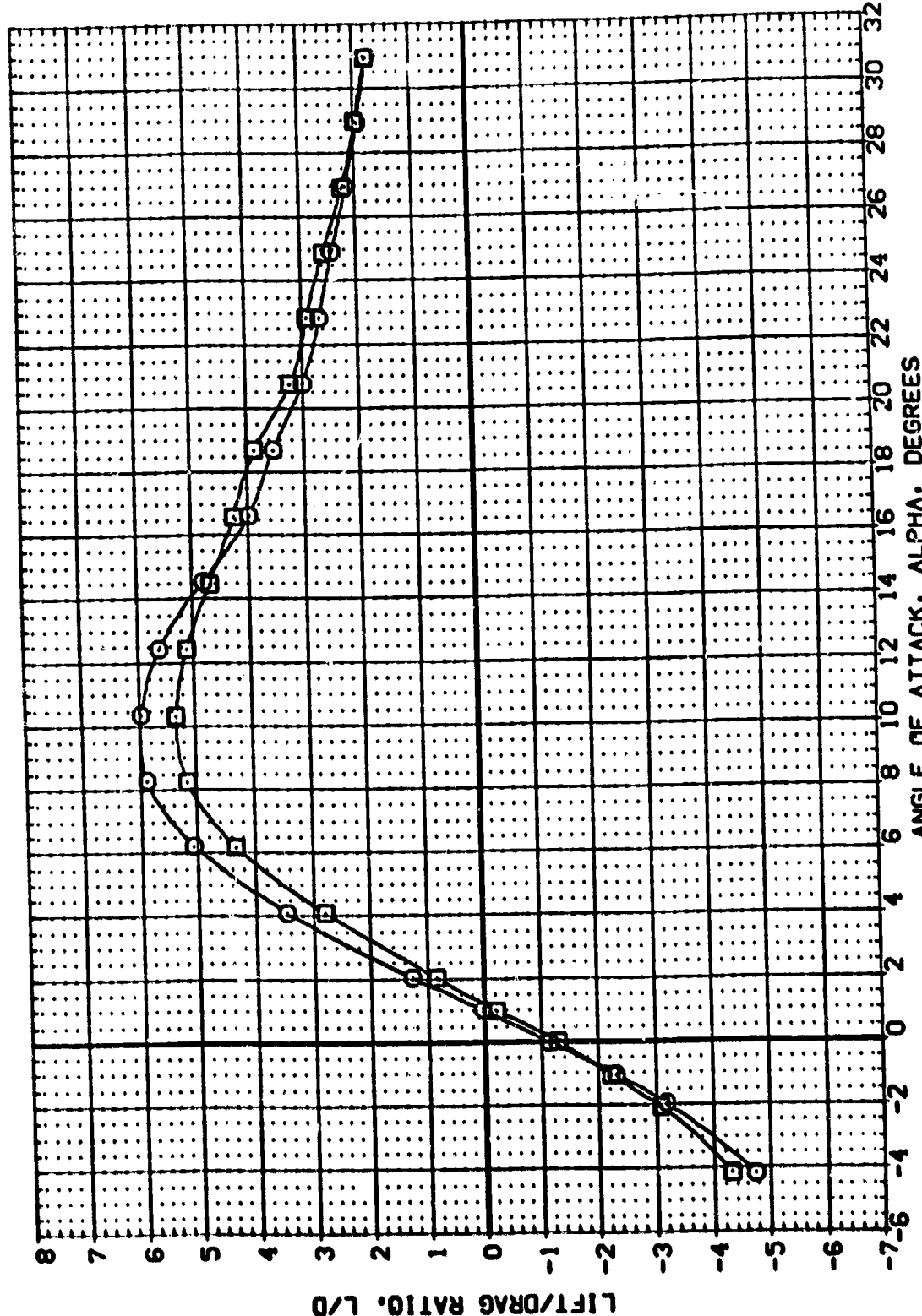


FIG 37 LONGITUDINAL CHAR. WING EXTENSIONS 3 CLUSTERS FLUSH MOUNT X0 = 1100

(A)MACH = .20

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DATA SET SYMBOL	CONFIGURATION DESCRIPTION
(AD0030)	0A62 B25CH
(AD0078)	0A62 B25CH
	58/48M 18E25V8R5X10
	58/48M 18E25V8R5X10

NACA/L	ELEVON	BD FLAP	SPDRK	REFERENCE INFORMATION
.730	.000	-12.000	.000	SREF 4.4119 SQ.FT.
	.000	-12.000	.000	LREF 19.2299 INCHES
				BREF 37.9359 INCHES
				XPRP 43.5974 INCHES
				YPRP .0000 INCHES
				ZPRP 15.1875 INCHES
				SCALE .0405

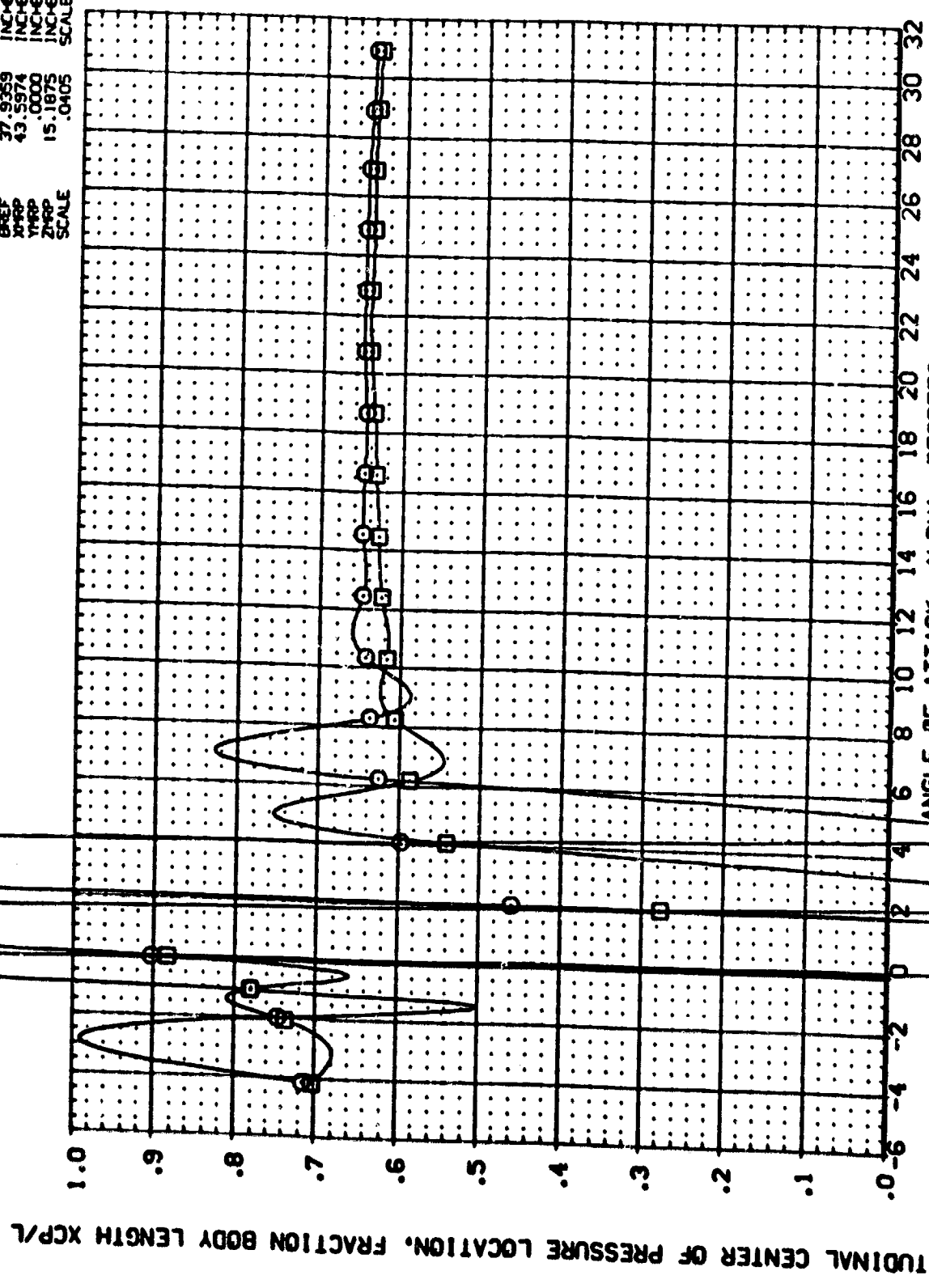


FIG 37 LONGITUDINAL CHAR. WING EXTENSIONS 3 CLUSTERS FLUSH MOUNT XO = 1100  
(A)MACH = .20

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DATA SET SYMBOL: 8  
 (ADW090) 0A52 825C3 FB/48W/10E26V80SX10  
 (ADW078) 0A52 825C3 FB/48W/10E26V80SX10

MAC/L ELEVON 80FLAP SPOBRK REFERENCE INFORMATION  
 .730 .000 .000 .000  
 .730 .000 .000 .000  
 SREF 4.4119 50.FT.  
 LREF 19.2299 INCHES  
 BREF 37.9359 INCHES  
 XREF 43.5974 INCHES  
 YREF .0000 INCHES  
 ZREF 15.1875 INCHES  
 SCALE .0405 SCALE

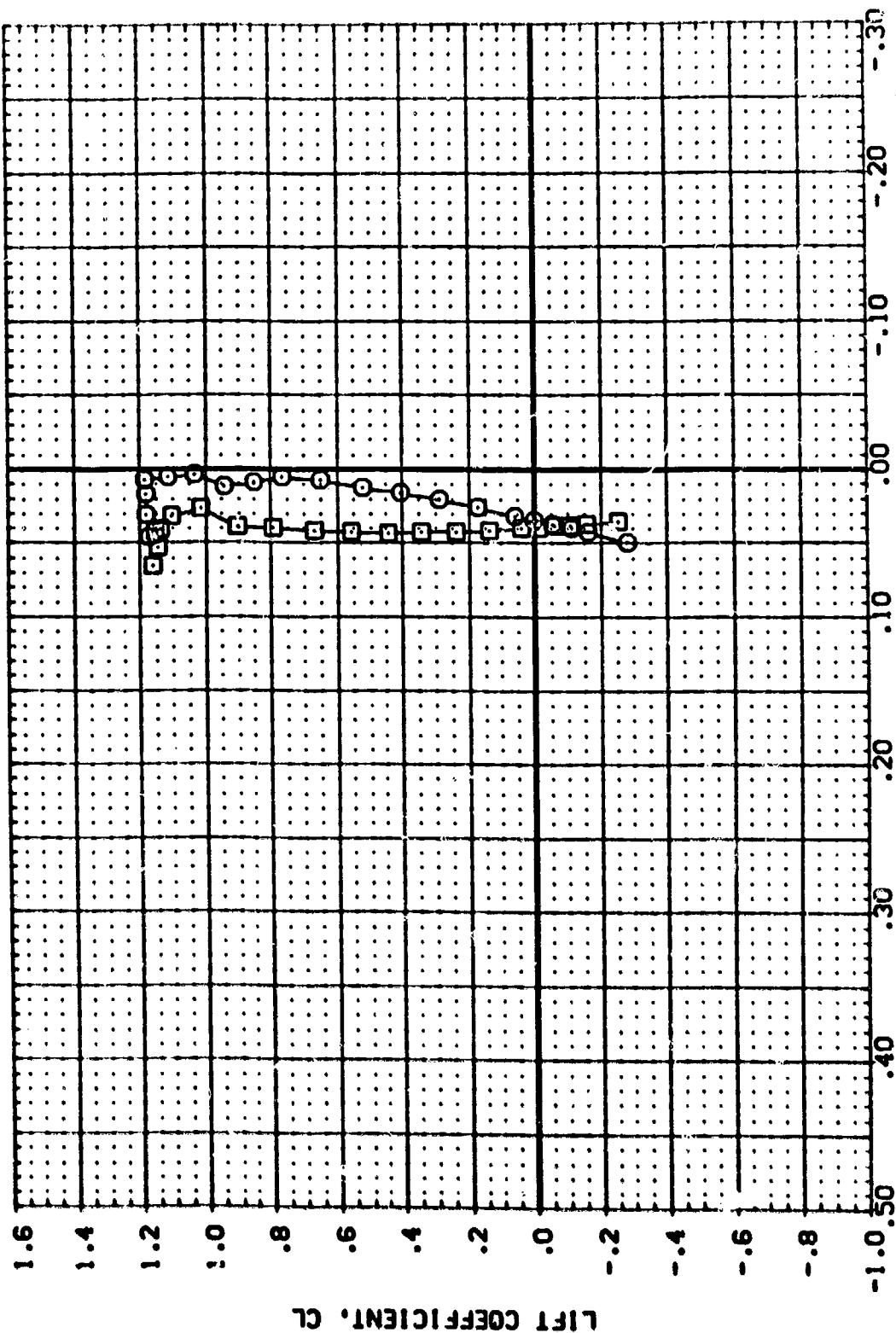


FIG 37 LONGITUDINAL CHAR. WING EXTENSIONS 3 CLUSTERS FLUSH MOUNT XO = 1100  
 (A)MACH = .20 PAGE 286

DATA SET SYMBOL  
(ADN090)  
(ADN078)

CONFIGURATION DESCRIPTION  
0A62 B26C9 FB048V116E26V85X10  
0A62 B26C9 FB048V116E26V85X10

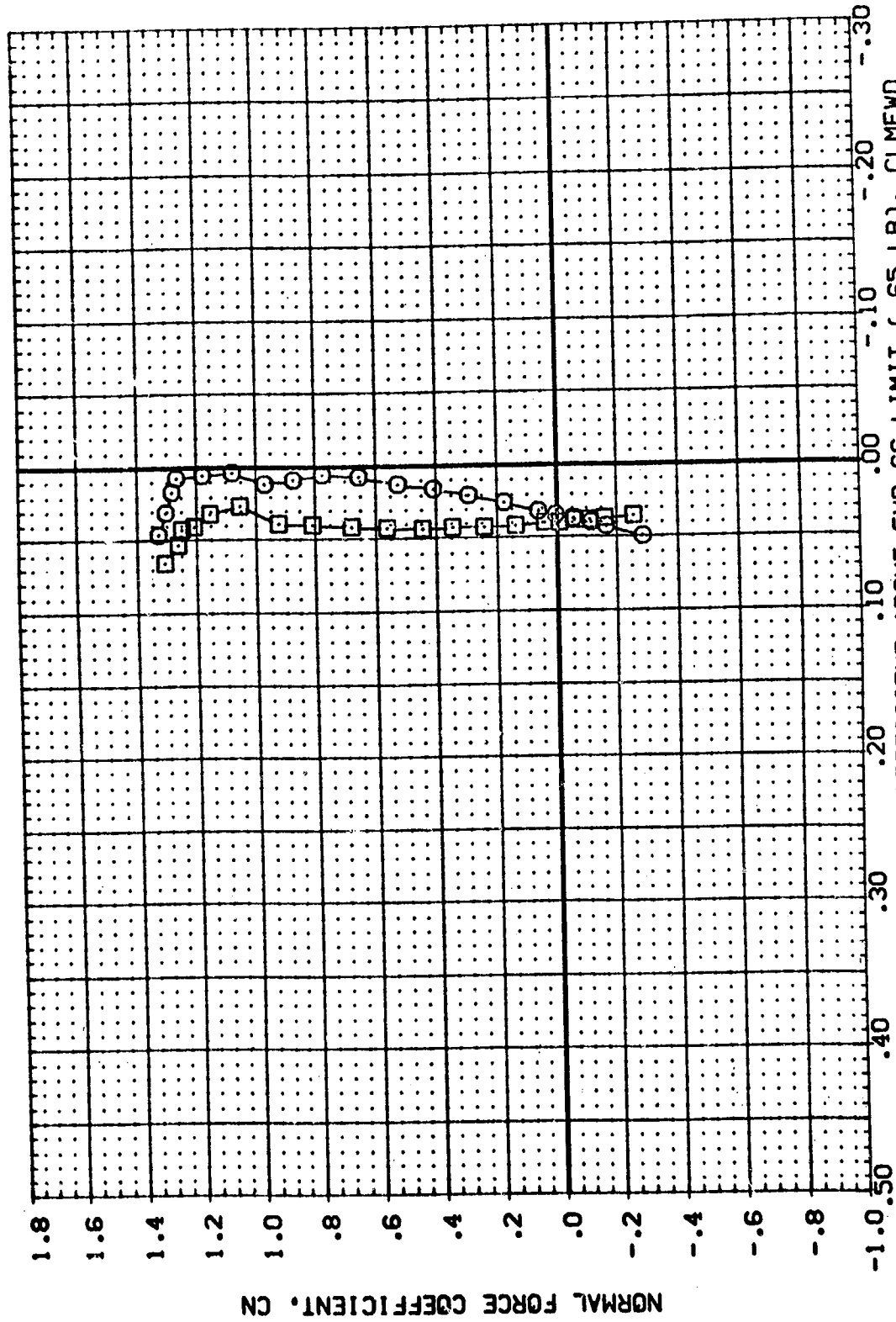
NACA/L  
.730  
.730

ELEVON  
.000  
.000

BDFLAP  
-12.000  
-12.000

SPOBRK  
.000  
.000

REFERENCE INFORMATION  
SREF 4.4119 50 FT.  
LREF 19.2299 INCHES  
BREF 37.5359 INCHES  
XMRP 43.5974 INCHES  
YMRP .0000 INCHES  
ZMRP 15.1875 INCHES  
SCALE .0405



PITCHING MOMENT COEFFICIENT ABOUT FWD CG LIMIT (.65 LB). CLMFWD

FIG 37 LONGITUDINAL CHAR. WING EXTENSIONS 3 CLUSTERS FLUSH MOUNT XO = 1100

(A)MACH = .20

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		MACVL		ELEVON		BOFLAP		SPOBRK		REFERENCE INFORMATION	
(ADV090)	□	0A62	B26C9	FB448V11BE26V8PSX10	.730	.000	-12.000	.000	SREF	4.4119	50. FT.		
(ADV078)	□	0A62	B26C9	FB448V11BE26V8PSX10	.730	.000	-12.000	.000	LREF	19.2299	INCHES		
									BREF	37.9359	INCHES		
									XTRP	43.5974	INCHES		
									YTRP	.0000	INCHES		
									ZTRP	15.1875	INCHES		
									SCALE	.0405	SCALE		

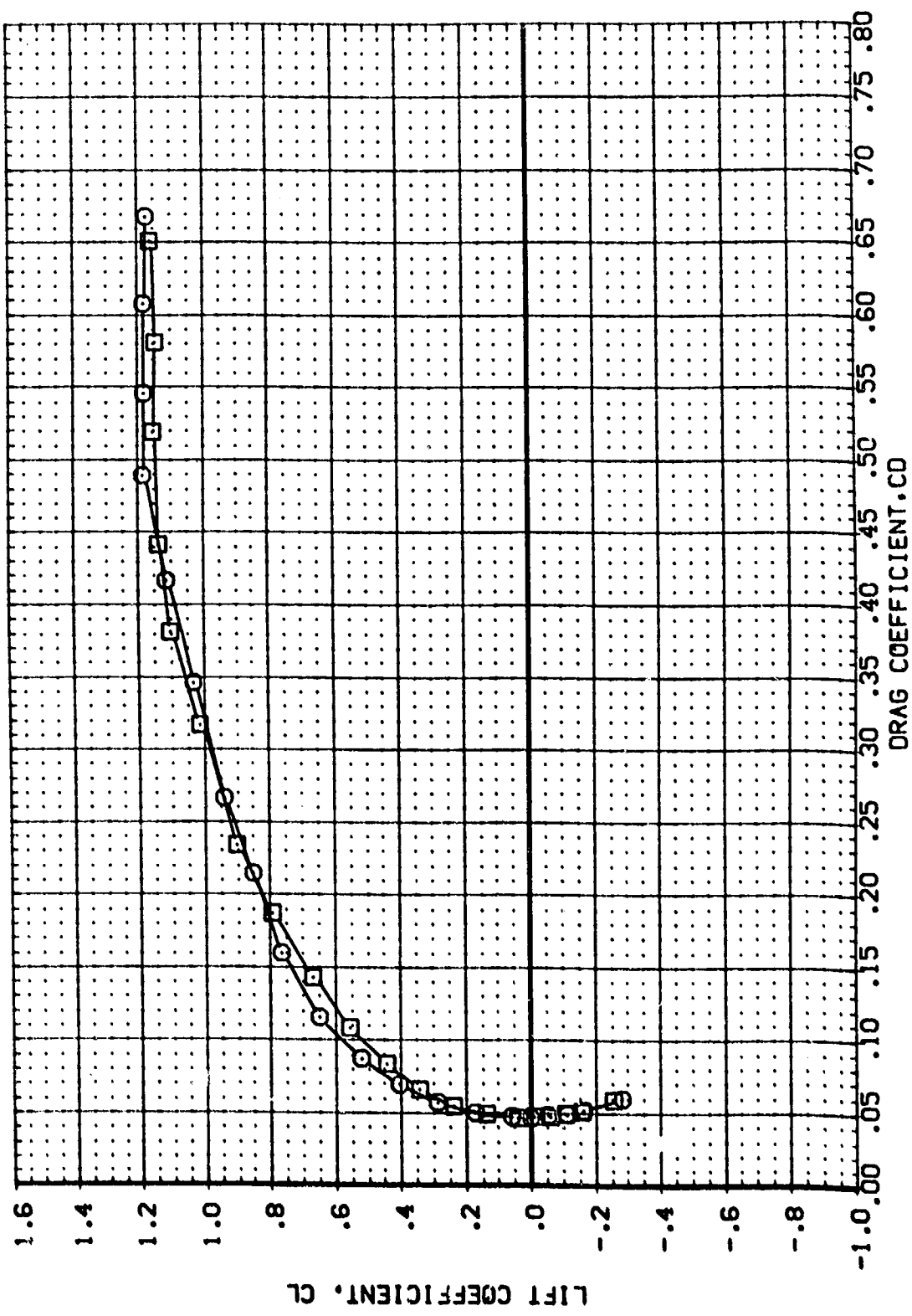


FIG 37 LONGITUDINAL CHAR. WING EXTENSIONS 3 CLUSTERS FLUSH MOUNT X0 = 1100  
 (A)MACH = .20





DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NACA/L	ELEVON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(CDV090)	0A62 B26C9 F8J48V116E26V85X10	.730	.000	-12.000	.000	SREF 4.4119 SQ.FT.
(CDV078)	0A62 B26C9 F8J48V116E26V85X10	.730	.000	-12.000	.000	LREF 19.2298 INCHES
						BREF 37.5359 INCHES
						YMRP 44.3813 INCHES
						ZMRP .0000 INCHES
						SCALE 15.1875 INCHES
						SCALE .0405

PITCHING MOMENT COEFFICIENT ABOUT AFT CG LIMIT (.675 LB), CLMAFT

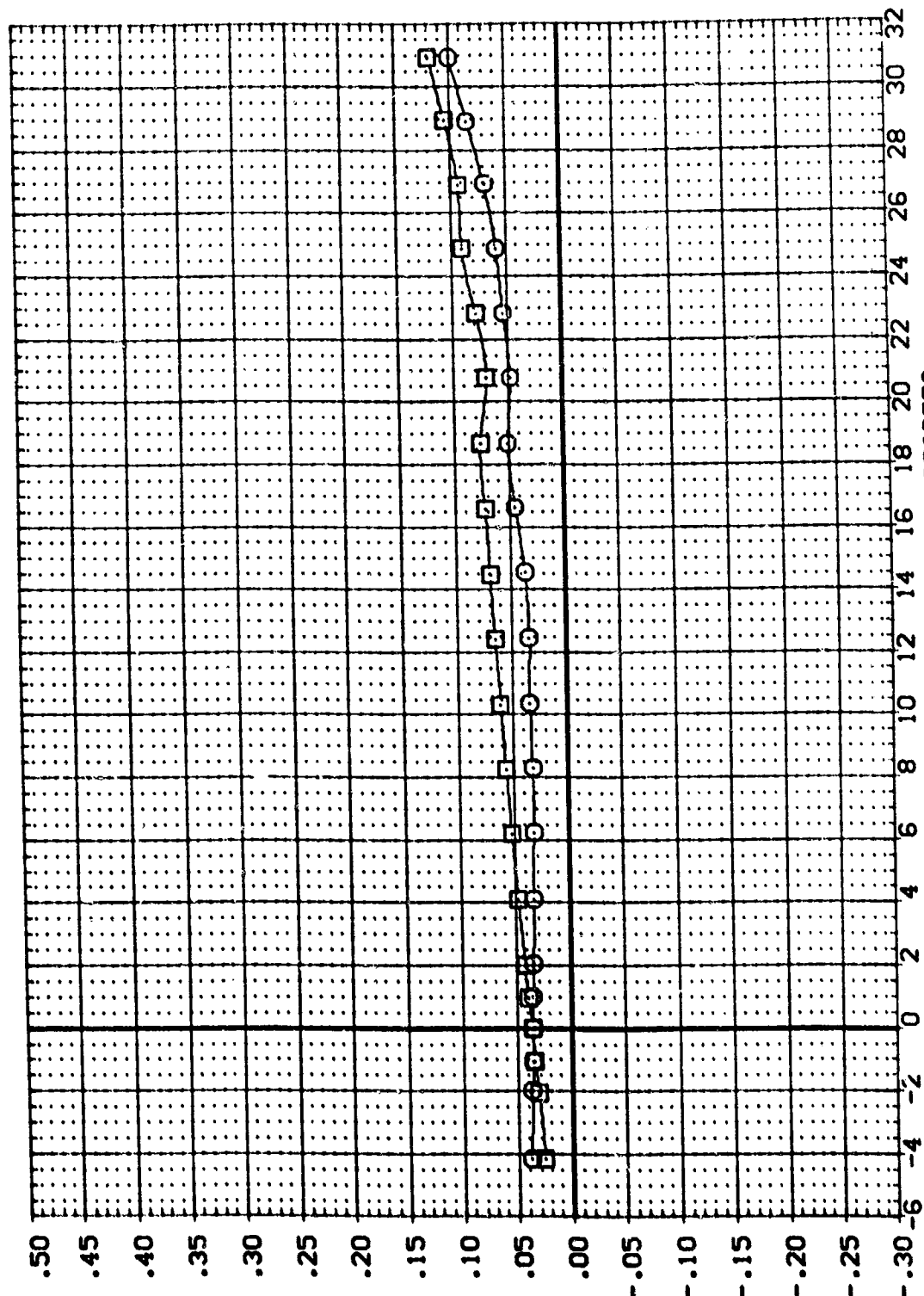


FIG 37 LONGITUDINAL CHAR. WING EXTENSIONS 3 CLUSTERS FLUSH MOUNT X0 = 1100  
 (A)MACH = .20 PAGE 289

DATA SET SYMBOL CONFIGURATION DESCRIPTION

DATA SET SYMBOL	CONFIGURATION	DESCRIPTION
(RMOV01)	0A62 B26C9	F8J48V118E26V85SX10
(RMOV02)	0A62 B26C9	F8J48V118E26V85SX10
(RCV002)	0A62 B26C9	F8 V118E26V85SX9
(RCV004)	0A62 B26C9	F8 V118E26V85SX9

REFERENCE INFORMATION

REFERENCE	VALUE	UNIT
SREF	4.4119	INCHES
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	.0000	INCHES
ZMRP	15.1875	INCHES
SCALE	.0405	SCALE

ALPHA NACA/L SPOBRK RUDDER

ALPHA	NACA/L	SPOBRK	RUDDER
.000	.730	.000	.000
10.000	.730	.000	.000
10.000	.730	.000	.000

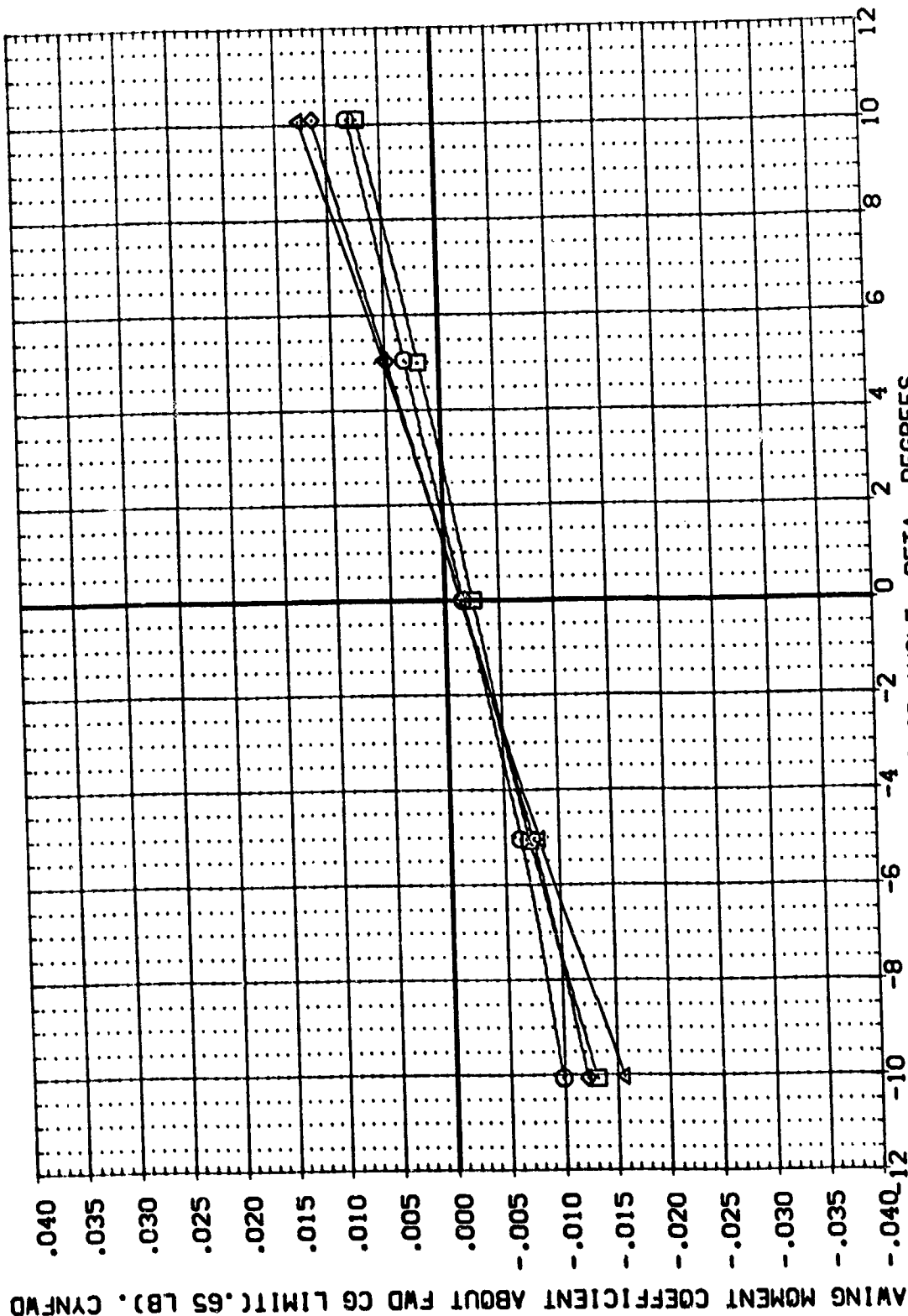


FIG 38 LAT. / DIR. CHAR. WING EXTENSIONS 3 CLUSTERS FLUSH MOUNT X0 = 1100  
 (A)MACH = .20



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	NACA/L	SPOBRK	RUDDER	REFERENCE INFORMATION
(R0V091)	DA62 B26C9 FB/48V116E26VBR5X10	.000	.730	.000	.000	SREF 4.4119 50 FT.
(R0V092)	DA62 B26C9 FB/48V116E26VBR5X10	10.000	.730	.000	.000	LREF 19.2299 INCHES
(R0V002)	DA62 B26C9 FB V116E26VBR5X9	.000		.000	.000	BREF 37.9359 INCHES
(R0V004)	DA62 B26C9 FB V116E26VBR5X9	10.000		.000	.000	XMRP 43.5974 INCHES
						YMRP .0000 INCHES
						ZMRP 15.1875 INCHES
						SCALE .0405

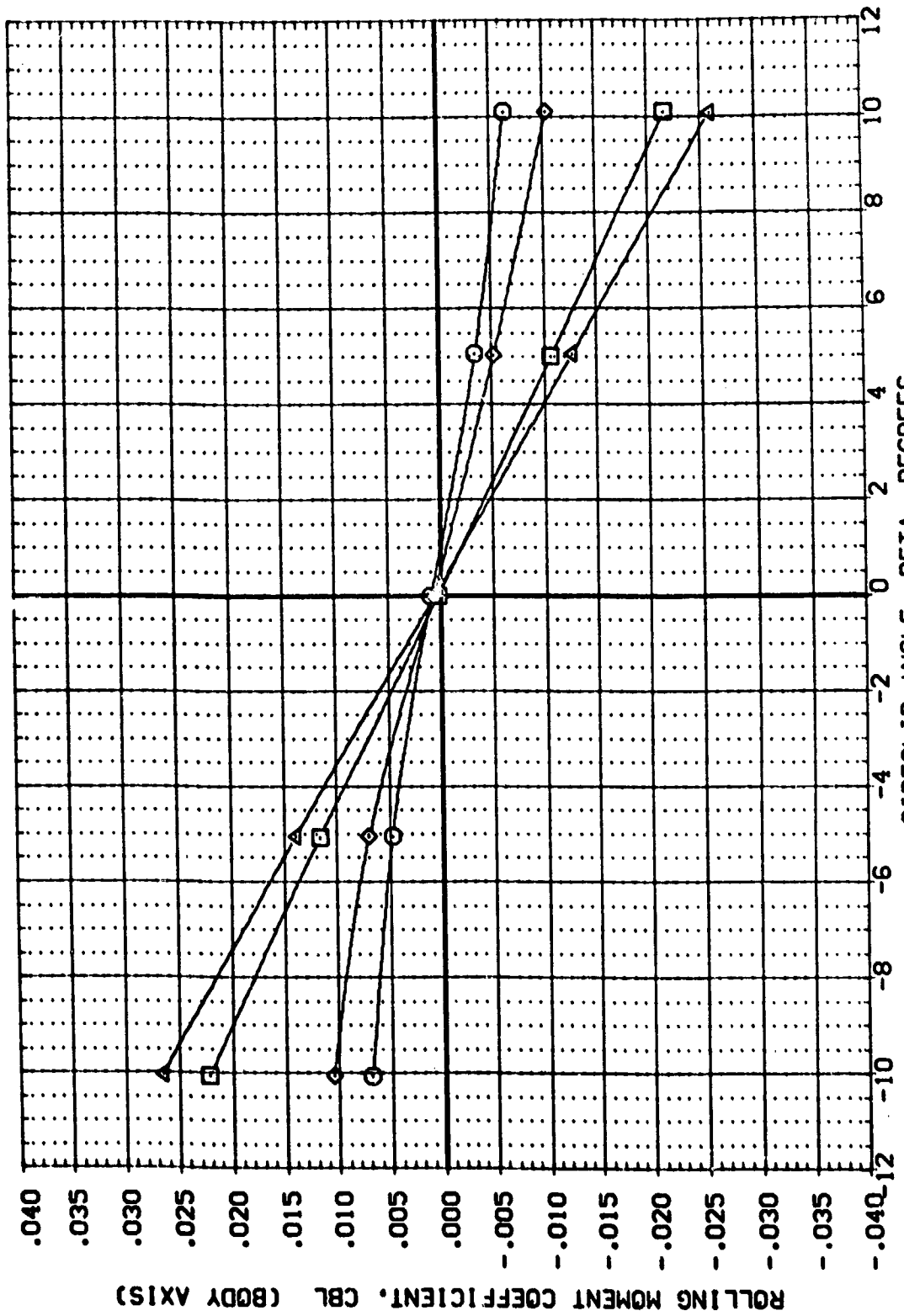


FIG 38 LAT. / DIR. CHAR. WING EXTENSIONS 3 CLUSTERS FLUSH MOUNT XO = 1100  
 (A)MACH = .20

DATA SET SYMBOL CONFIGURATION DESCRIPTION

(R0V091)	QAS2	B26C9	F8J48V118E26V85X10
(R0V092)	QAS2	B26C9	F8J48V118E26V85X10
(R0V093)	QAS2	B26C9	F8 J118E26V85X9
(R0V094)	QAS2	B26C9	F8 V118E26V85X9

REFERENCE INFORMATION

SREF	4.4119	SO.FT.
LREF	19.2299	INCHES
BREF	37.9359	INCHES
XMRP	43.5974	INCHES
YMRP	15.0000	INCHES
ZMRP	15.1875	INCHES
SCALE	.0405	SCALE

ALPHA

.000
10.000
10.000

NACX/L

.730
.730

SPDBRK

.000
.000
.000

RUDDER

.000
.000
.000

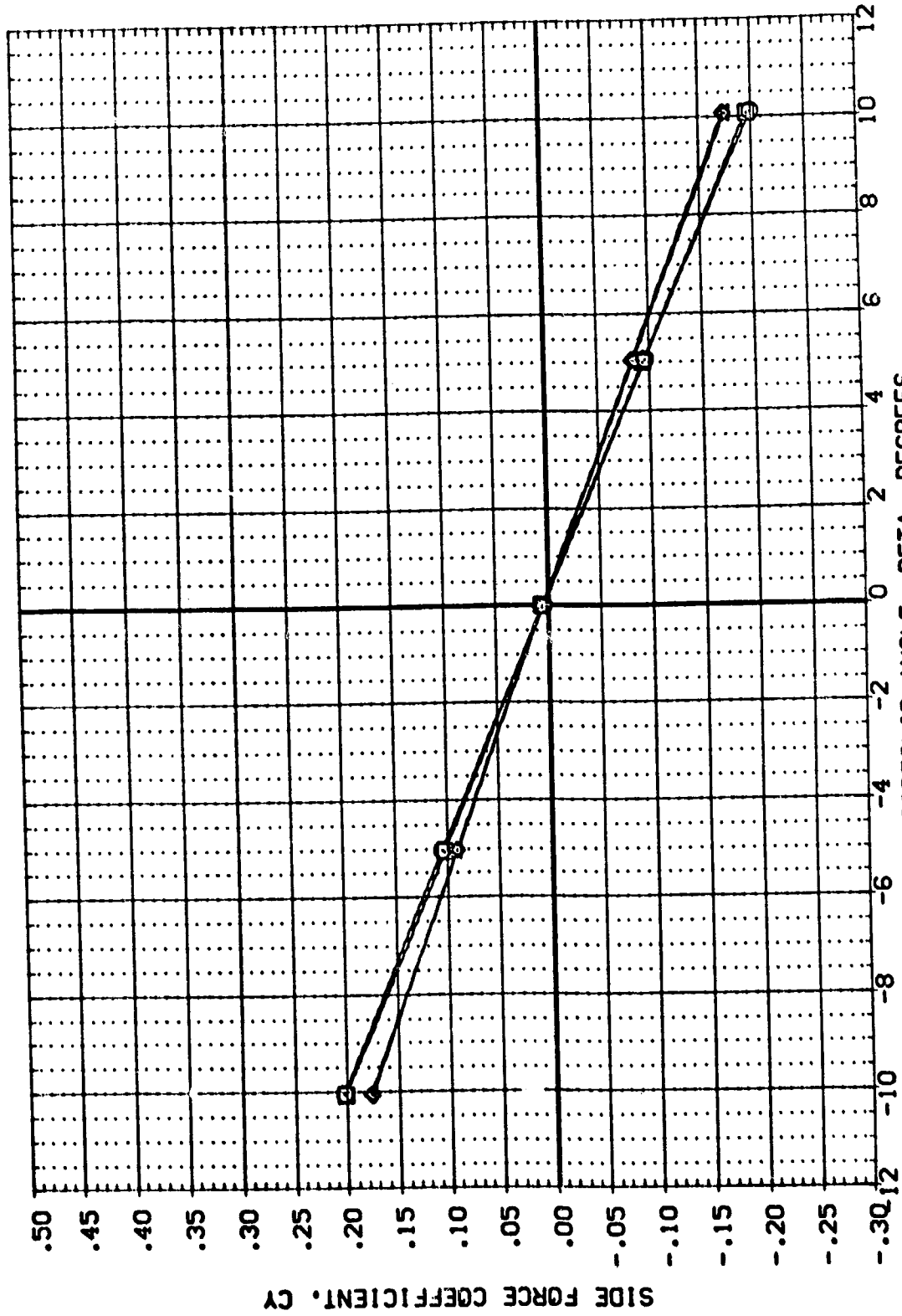


FIG 38 LAT. / DIR. CHAR. WING EXTENSIONS 3 CLUSTERS FLUSH MOUNT X0 = 1100  
 (A)MACH = .20



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NACA/L	ELEVON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(EDV091)	0462 B26C9 FB448V118E26V8R5X10	.730	.000	-12.000	.000	SREF 4.4119 SQ.FT.
(EDV002)	0462 B26C9 FB V116E26V8R5X9		.000	-12.000	.000	LREF 19.2299 INCHES
						BREF 37.9359 INCHES
						YPRP 43.5974 INCHES
						ZPRP .0000 INCHES
						SCALE 15.1875 INCHES

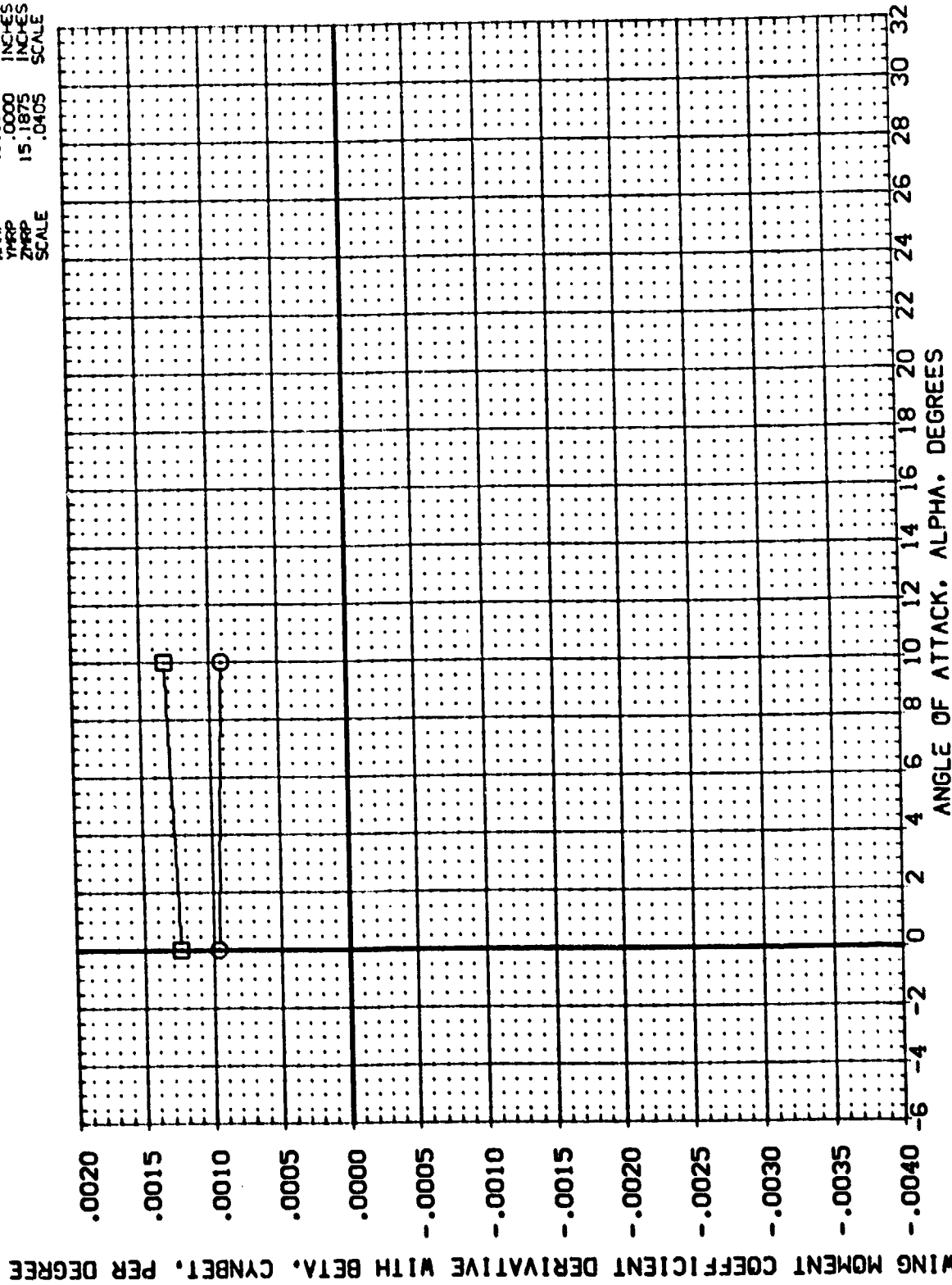


FIG 38 LAT. / DIR. CHAR. WING EXTENSIONS 3 CLUSTERS FLUSH MOUNT XO = 1100

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (ED4091) 0A62 B26C9 FB46V11BE26V85X10  
 (ED4002) 0A62 B26C9 FB V116E26V85X9

MAC/L ELEVON 80FLAP SPOBRK  
 .730 .000 -12.000 .000  
 .000 -12.000 .000

REFERENCE INFORMATION  
 SREF 4.4119 SQ.FT.  
 LREF 19.2293 INCHES  
 BREF 37.9359 INCHES  
 XTRP 43.5974 INCHES  
 YTRP .0000 INCHES  
 ZTRP 15.1875 INCHES  
 SCALE .0405 SCALE

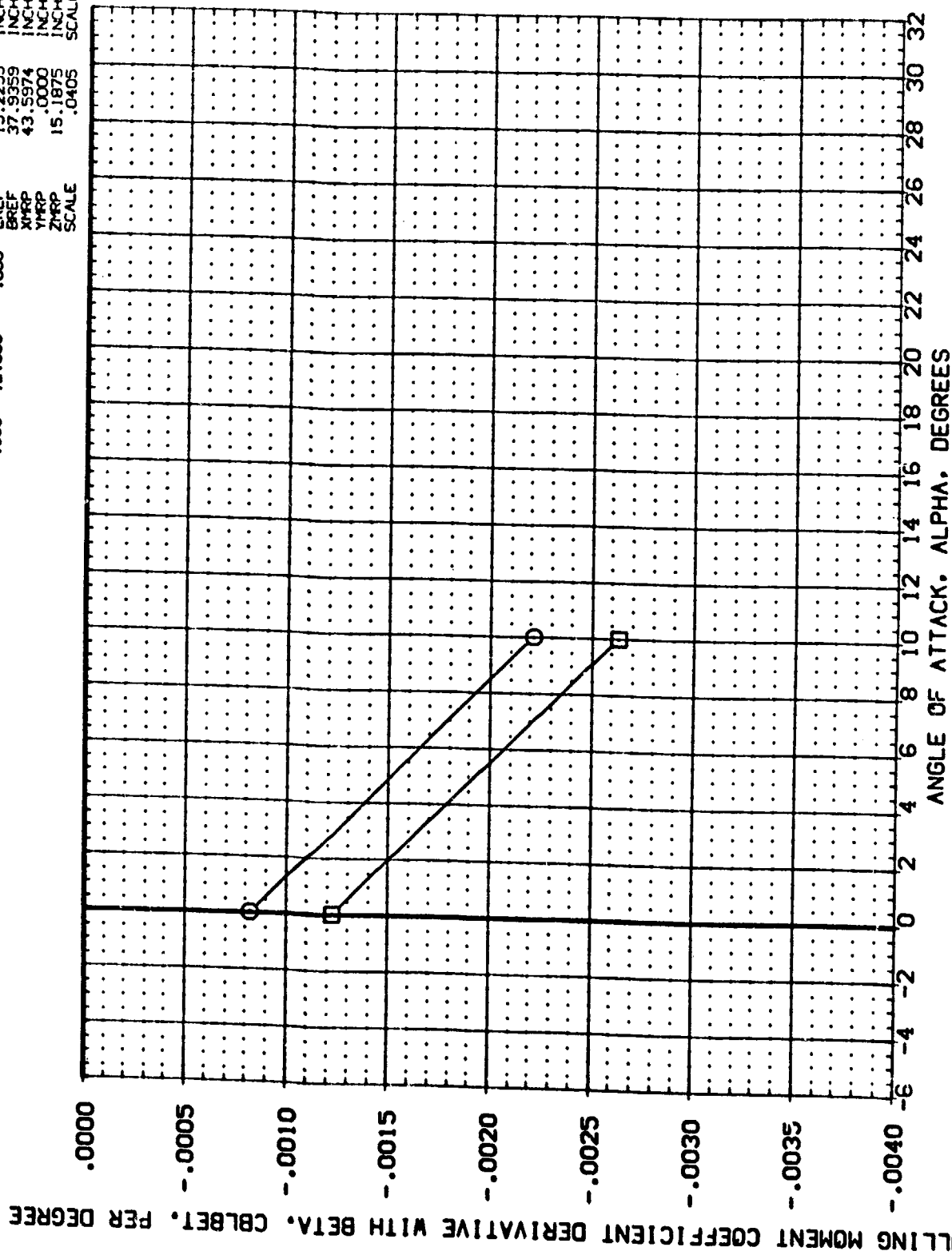


FIG 38 LAT. / DIR. CHAR. WING EXTENSIONS 3 CLUSTERS FLUSH MOUNT X0 = 1100



DATA SET SYMBOL: (EDV091) (EDV002)  
 CONFIGURATION: 0A62 826C9 826C9  
 DESCRIPTION: FB F8J48W118E26V85X10 FB W116E26V85X9

NACA/ELEVON: 1000.000 .730  
 80CLAP: .000 -12.000 .000 -12.000  
 SPOBRK: .000 .000

REFERENCE INFORMATION:  
 SREF: 4.4119 SO.FT.  
 LREF: 19.2299 INCHES  
 BREF: 37.9359 INCHES  
 YMRP: 43.5974 INCHES  
 YMRP: 43.0000 INCHES  
 ZMRP: 15.1875 INCHES  
 SCALE: .0405

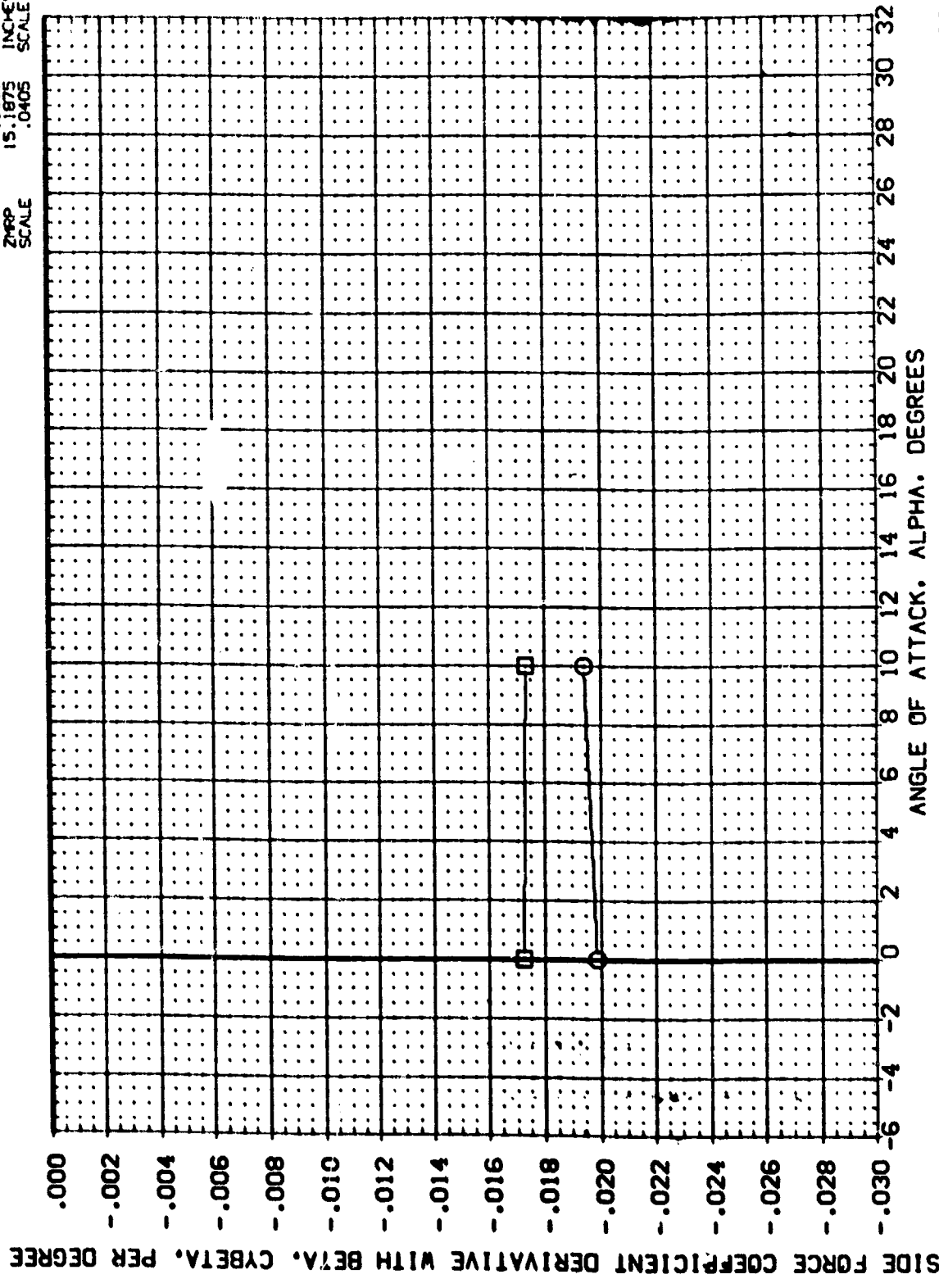


FIG 38 LAT. / DIR. CHAR. WING EXTENSIONS 3 CLUSTERS FLUSH MOUNT XO = 1100  
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DATA SET SYMBOL  
(AD0001)  
(AD0003)

CONFIGURATION DESCRIPTION  
DAG2 BZ6C9  
DAG2 BZ6C9

REFERENCE INFORMATION  
SREF 4.4119 SO.FT.  
LREF 19.2299 INCHES  
BREF 37.9359 INCHES  
XMRP 43.5974 INCHES  
YMRP .0000 INCHES  
ZMRP 15.1875 INCHES  
SCALE .0405

ELEVON .000  
AILERON .000  
BOFLAP -12.000  
SPOBRK .000

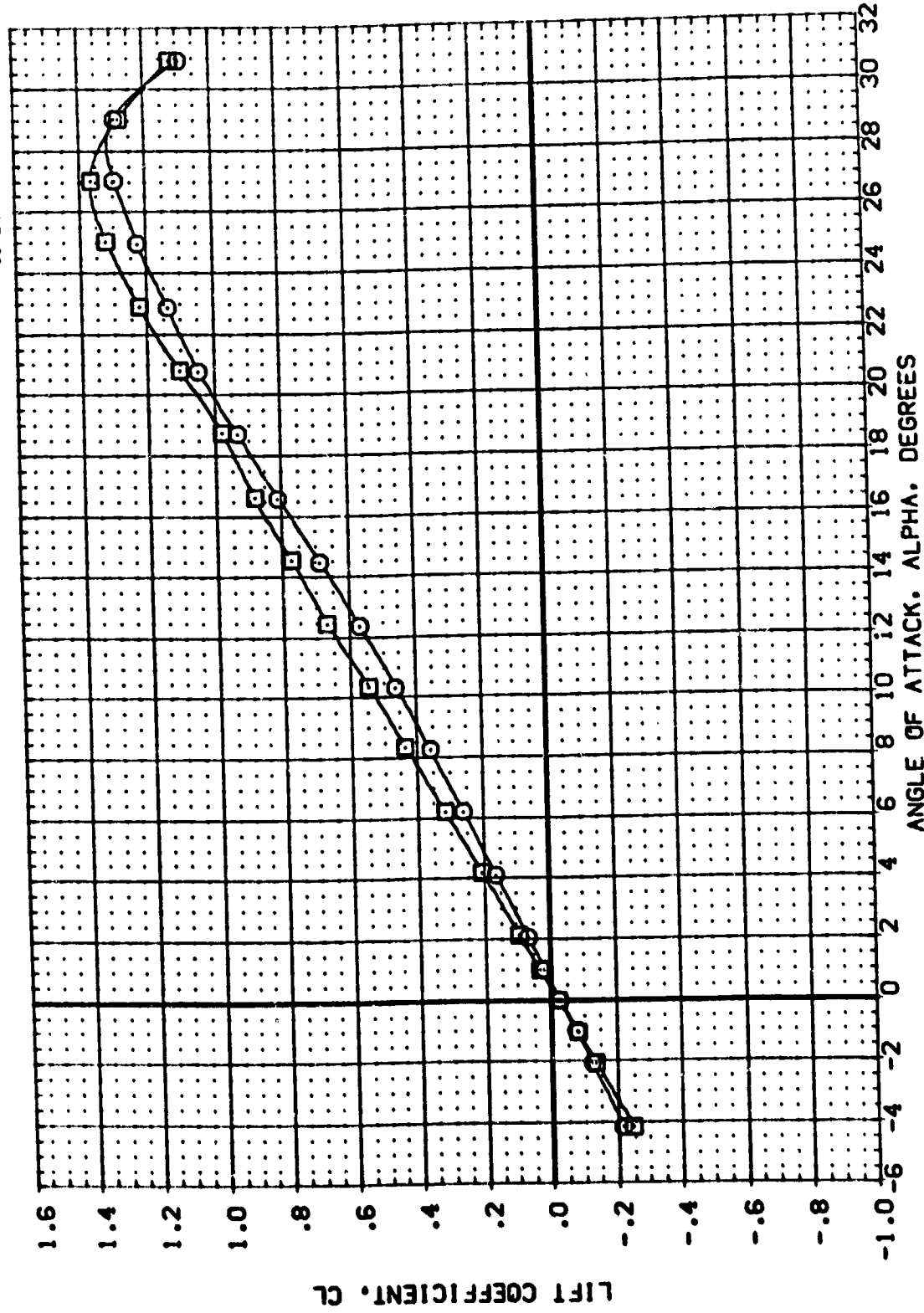


FIG 39 LONGITUDINAL CHARACTERISTICS WING EXTENSIONS ONLY NO NACELLES  
(A)MACH = .20



DATA SET SYMBOL		CONFIGURATION DESCRIPTION		REFERENCE INFORMATION	
(ADV001)	0452	826C9	F8	V116E26V8R5X9	SREF 4.4119 SO.FT.
(ADV093)	0462	826C9	F8	V116E26V8R5X9	LREF 19.2299 INCHES
					BREF 37.9353 INCHES
					XMRP 43.5974 INCHES
					YMRP .0000 INCHES
					ZMRP 15.1875 INCHES
					SCALE .0405

ELEVON .000 AILRON .000 BOFLAP .000 SPODRY .000

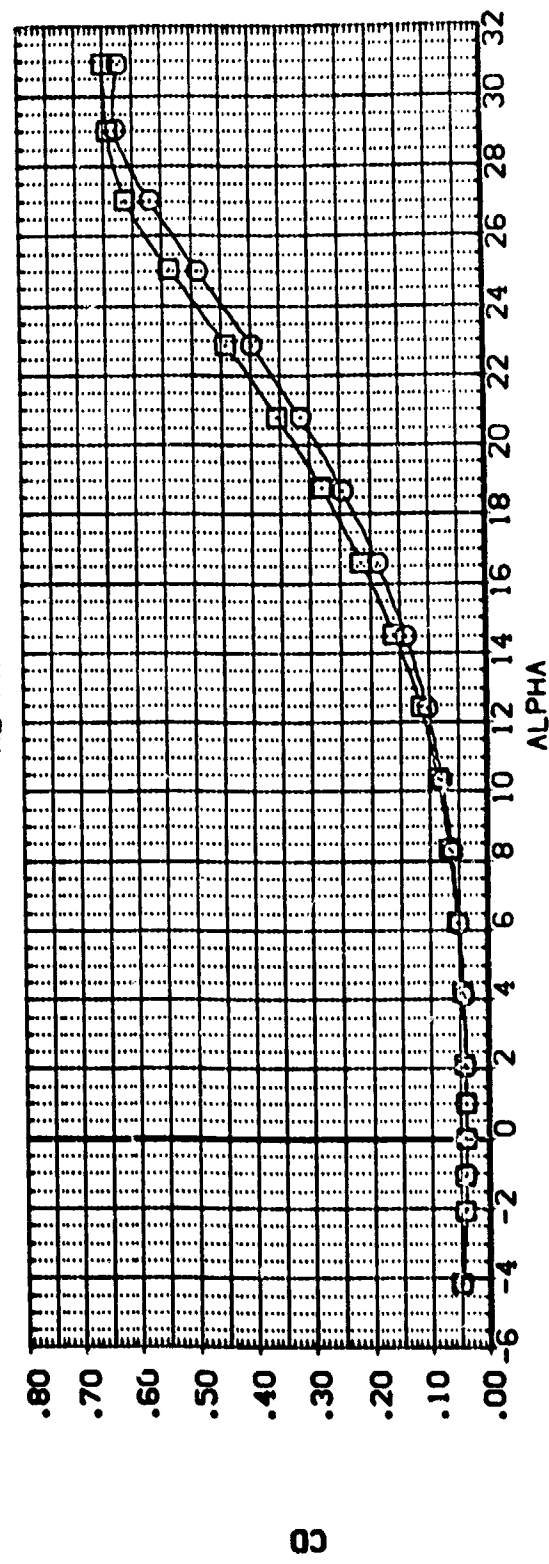
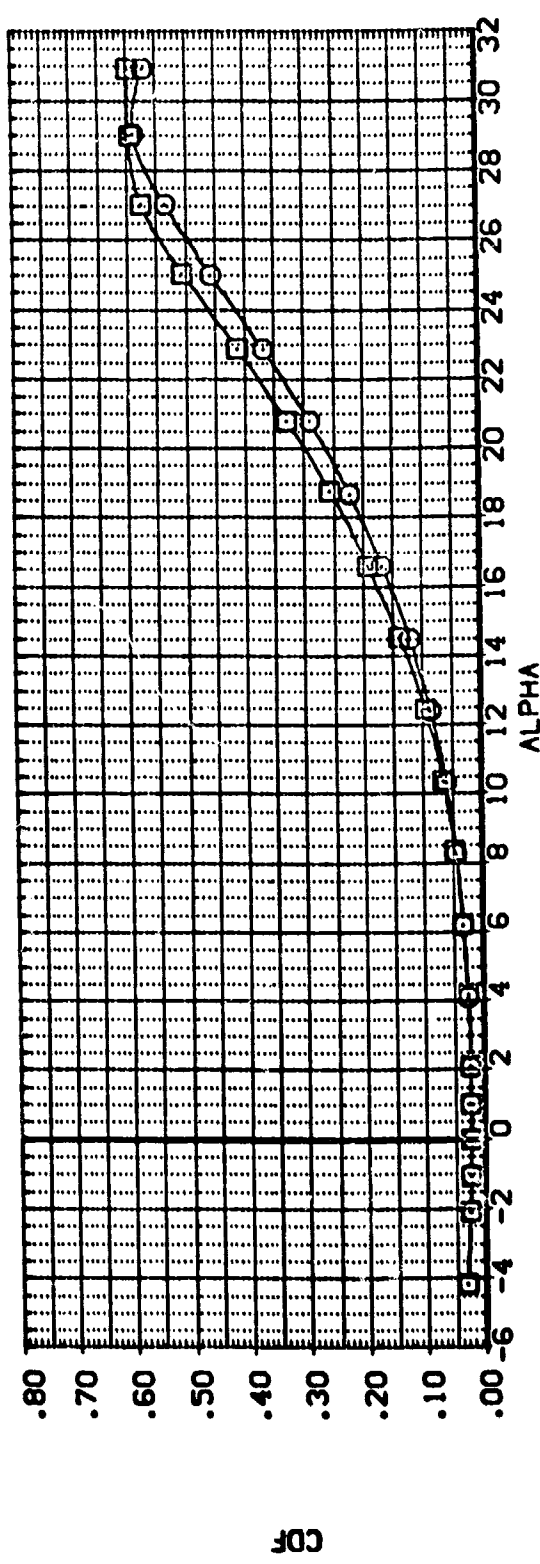


FIG 39 LONGITUDINAL CHARACTERISTICS WING EXTENSIONS ONLY NO NACELLES

(A)MACH = .20

DATA SET SYMBOL (ADV001) (ADV003)

CONFIGURATION DESCRIPTION  
 DAE2 B26C9 F8  
 DAE2 B26C9 F8

REFERENCE INFORMATION  
 SREF 4.4119 SQ.FT.  
 LREF 19.2299 INCHES  
 BREF 37.5359 INCHES  
 XMRP 43.5974 INCHES  
 YMRP .0000 FEET  
 ZMRP 15.1875 FEET  
 SCALE .0405

ELEVON .000  
 AIRLON .000  
 BOFLAP -12.000  
 SPOBRK .000

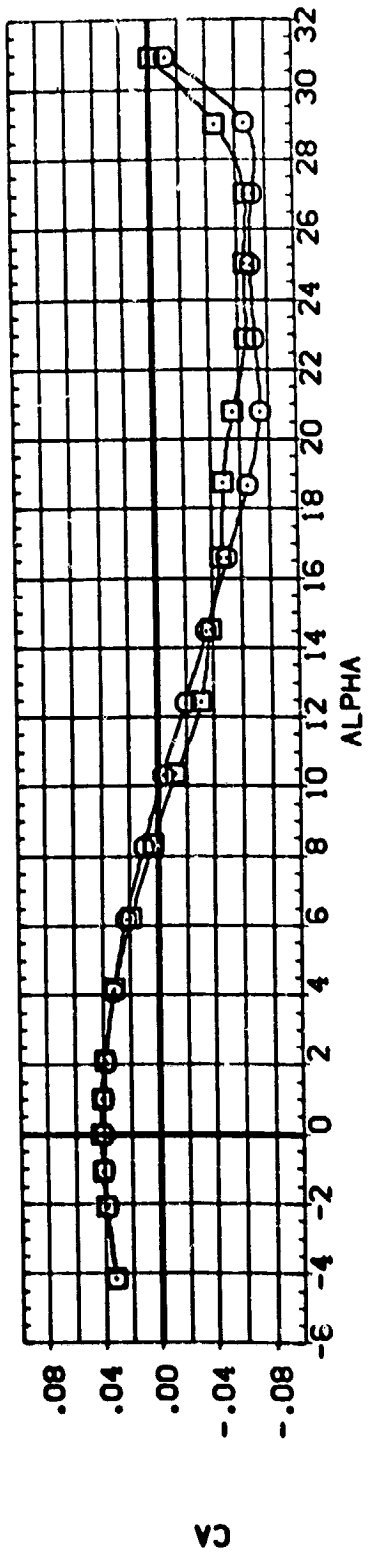
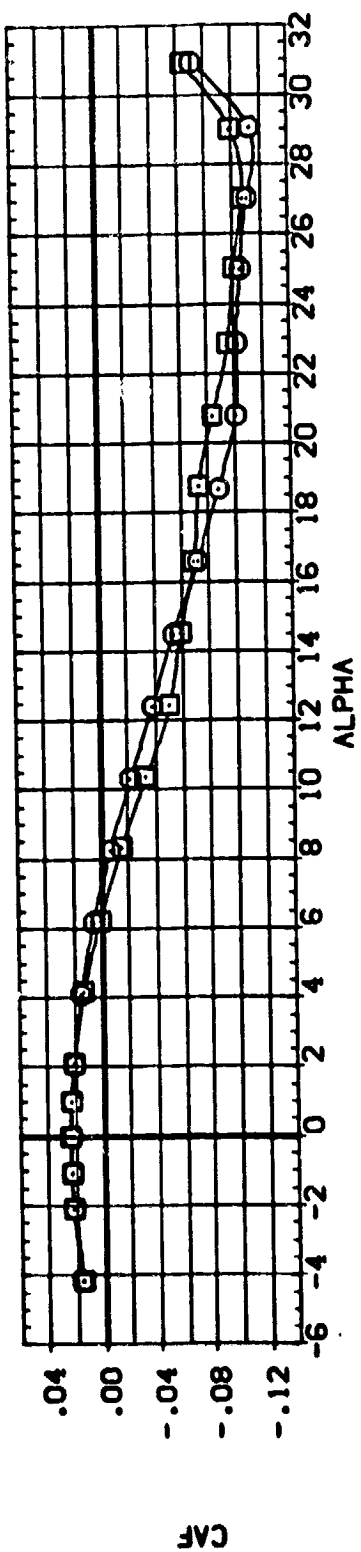
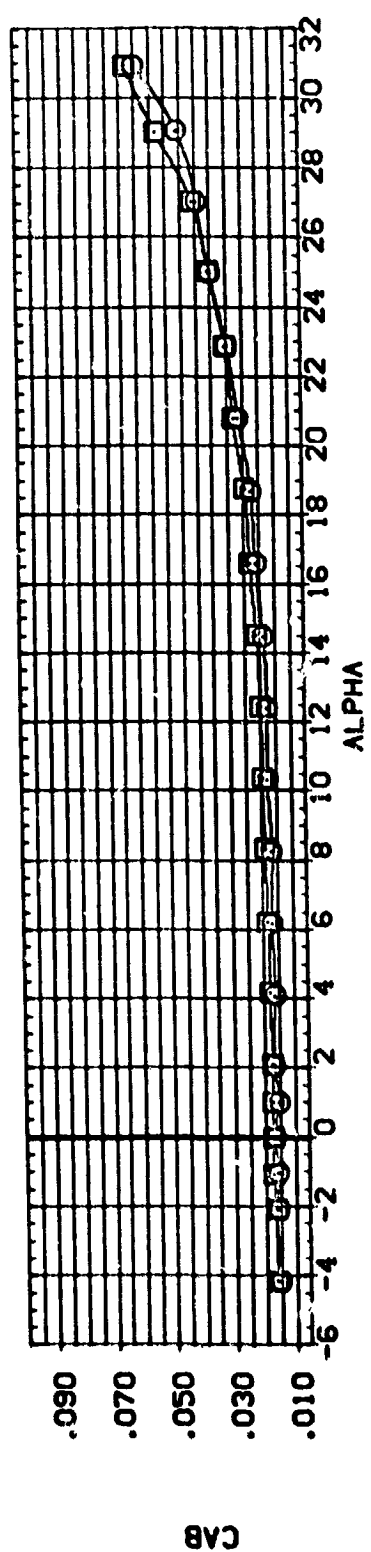


FIG 39 LONGITUDINAL CHARACTERISTICS WING EXTENSIONS ONLY NO NACELLES  
 (A)MACH = .20

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (ADV001) □ 0A62 826C9 F8 VIIIE26V8RSX9  
 (ADV053) □ 0A62 826C9 F8 VIIIE26V8RSX9

ELEVON AILRON BOFLAP SPOBRK  
 .000 .000 .000 .000  
 .000 .000 -12.000 .000

REFERENCE INFORMATION  
 SREF 4.4119 50.FT.  
 LREF 19.2299 INCHES  
 BREF 37.9359 INCHES  
 XREF 43.5974 INCHES  
 YREF .0000 INCHES  
 ZREF 15.1875 INCHES  
 SCALE .0405 SCALE

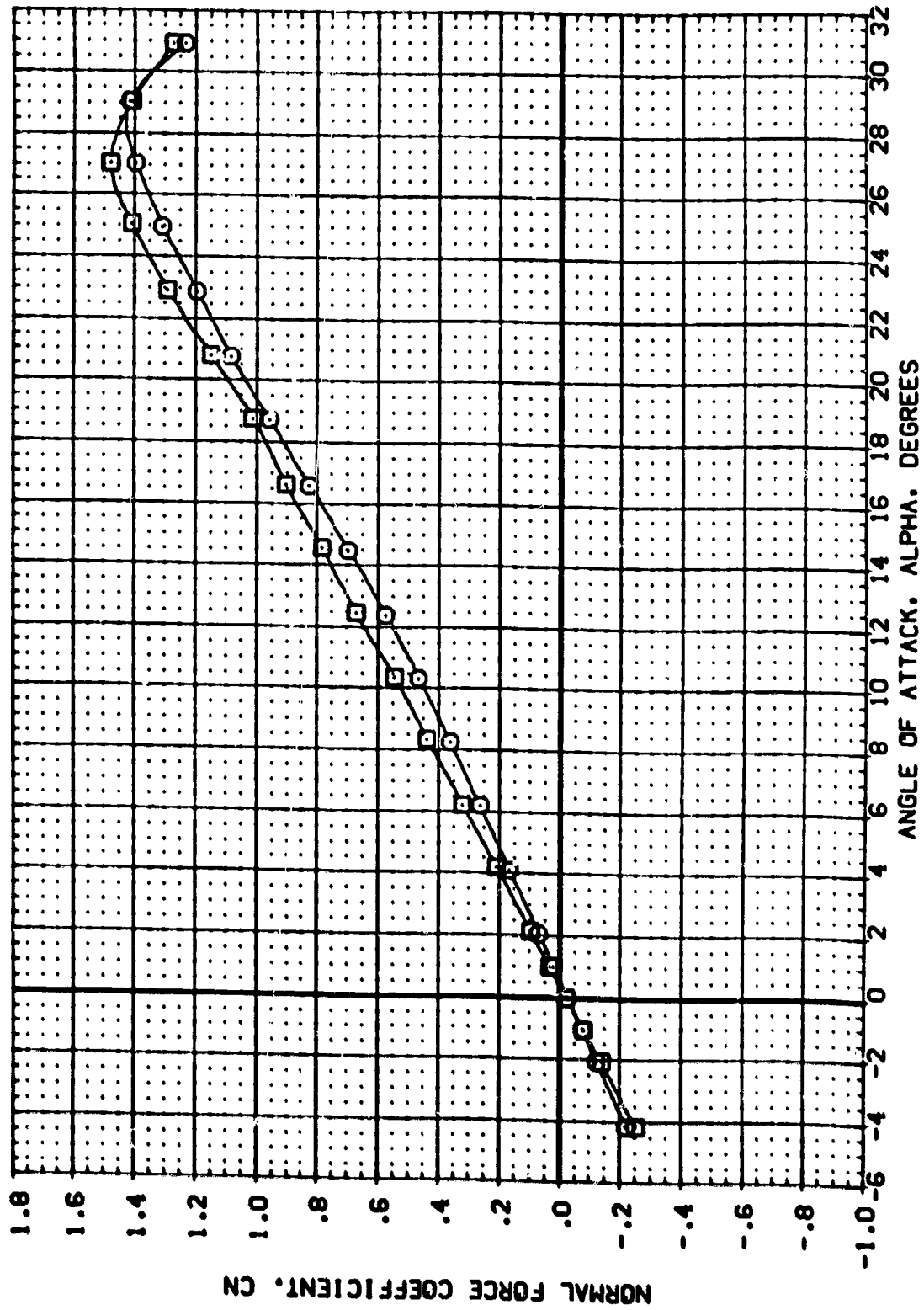


FIG 39 LONGITUDINAL CHARACTERISTICS WING EXTENSIONS ONLY NO NACELLES

(A)MACH = .20

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		ELEVON		AILRON		BDFLAP		SPDBRK		REFERENCE INFORMATION	
(ADN001)	QAG2	B26C9	F8	V11B26VBR5X9	.000	.000	.000	-12.000	.000	SREF	4.4119	50. FT.	
(ADN093)	QAG2	B26C9	F8	V11B26VBR5X9	.000	.000	.000	-12.000	.000	LREF	19.2298	INCHES	
										BREF	37.9359	INCHES	
										WREF	43.5974	INCHES	
										YHPP	.0000	INCHES	
										ZHPP	15.1875	INCHES	
										SCALE	.0405	SCALE	

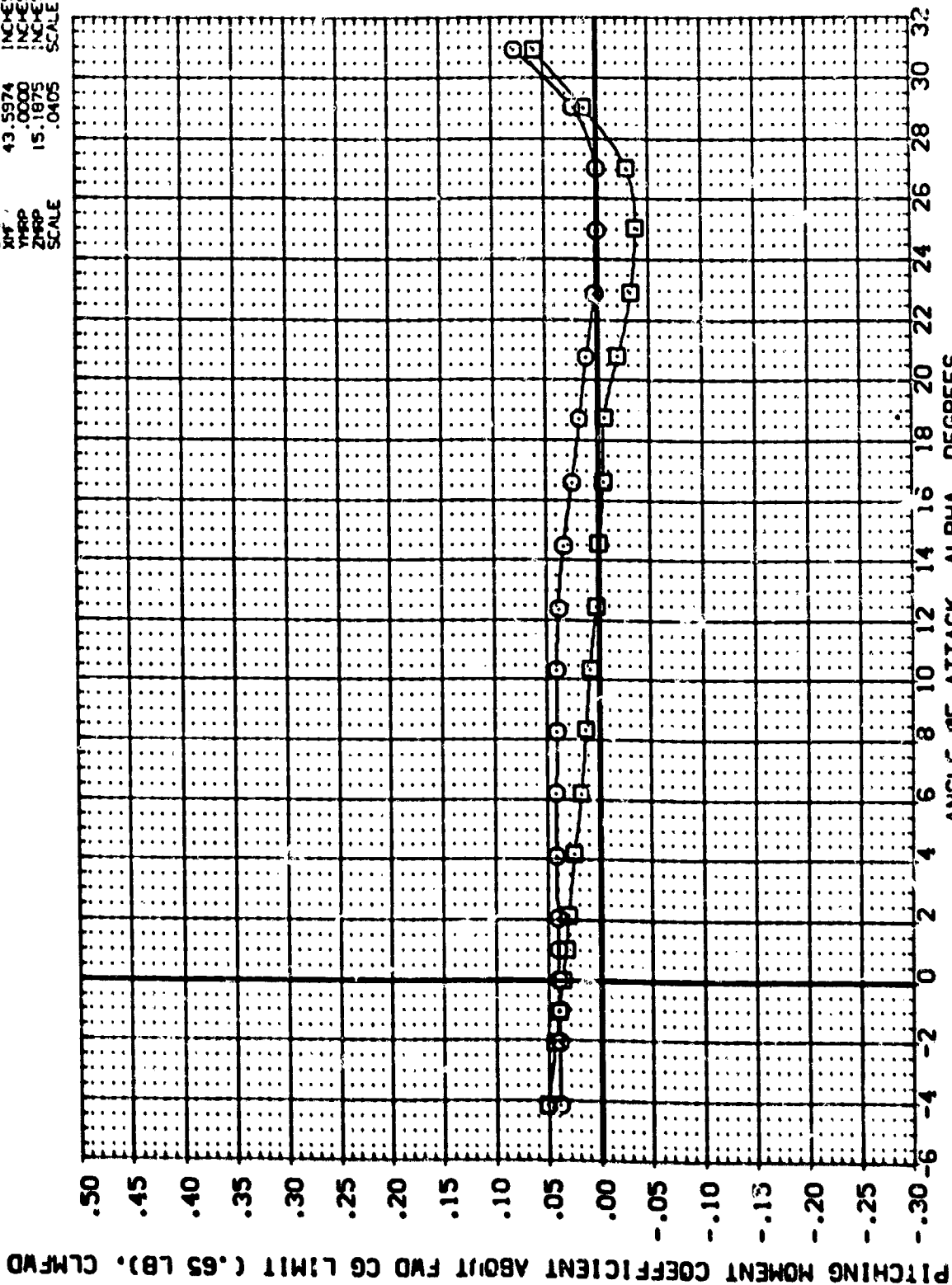


FIG 39 LONGITUDINAL CHARACTERISTICS WING EXTENSIONS ONLY NO NACELLES

(A)MACH = .20



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPDRBK	REFERENCE INFORMATION
(ADW001)	0A62 B26C9 F8 V118E26V8RSX9	.000	.000	-12.000	.000	SREF 4.4119 SQ.FT.
(ADW053)	0A62 B26C9 F8 V118E26V8RSX9	.000	.000	-12.000	.000	LREF 19.2299 INCHES
						BREF 37.9359 INCHES
						YMRP 43.5974 INCHES
						ZMRP 15.1875 INCHES
						SCALE .0405

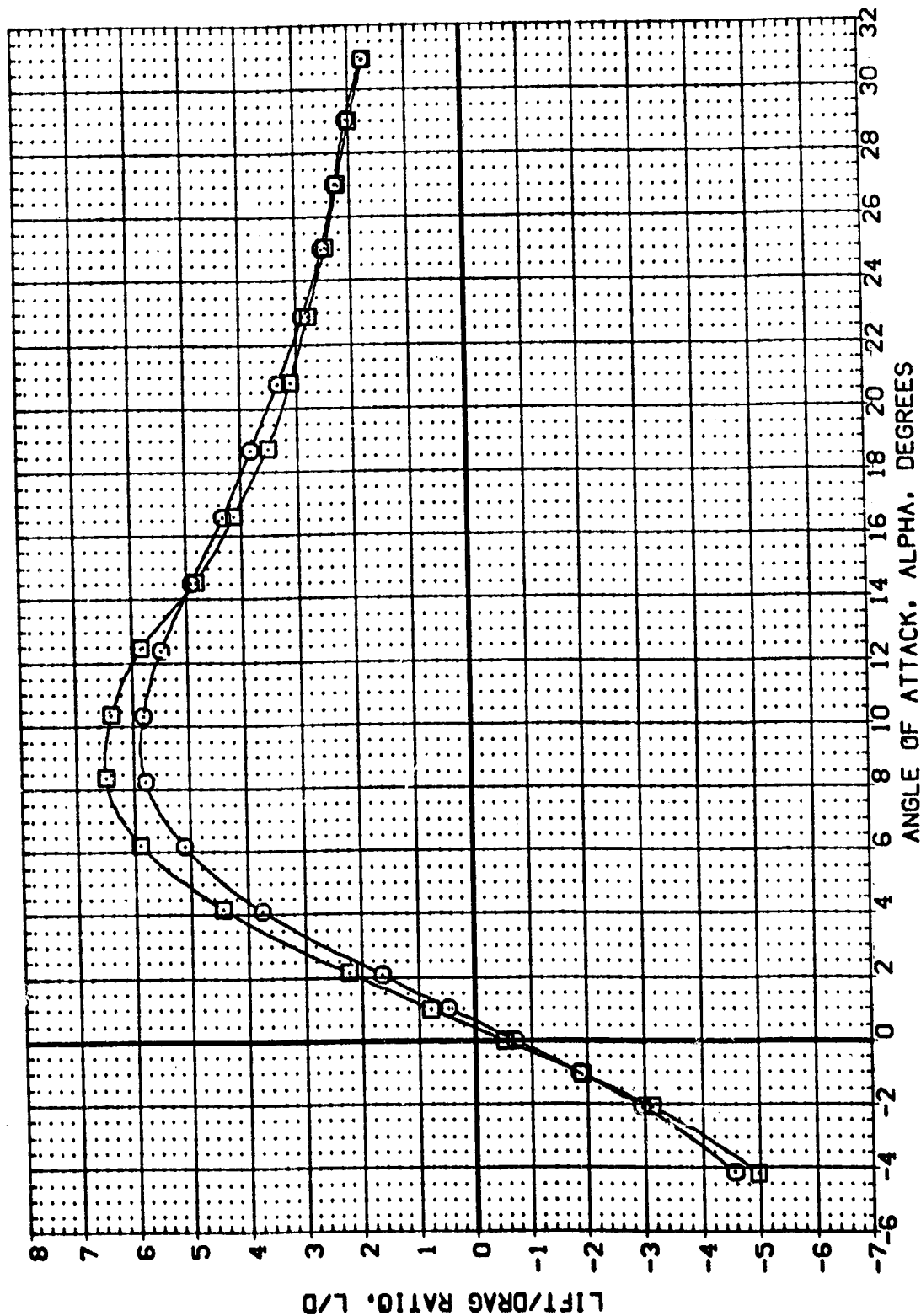


FIG 39 LONGITUDINAL CHARACTERISTICS WING EXTENSIONS ONLY NO NACELLES

(A)MACH = .20

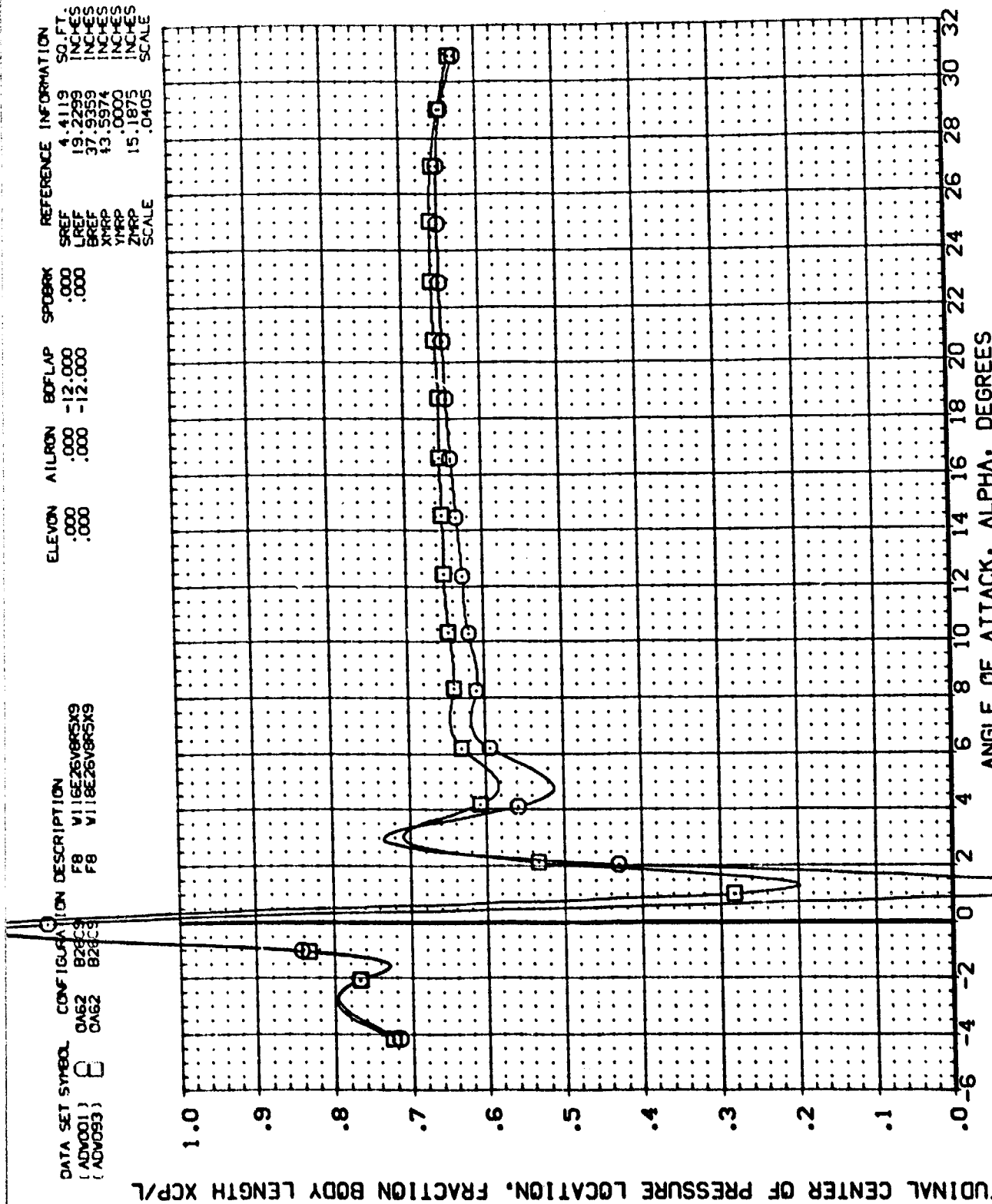


FIG 39 LONGITUDINAL CHARACTERISTICS WING EXTENSIONS ONLY NO NACELLES

DATA SET SYMBOL	CONFIGURATION	DESCRIPTION
(ADW001)	0A62 B26C9	F8 V11E26V9R5X9
(ADW093)	0A62 B26C9	F8 V11E26V9R5X9

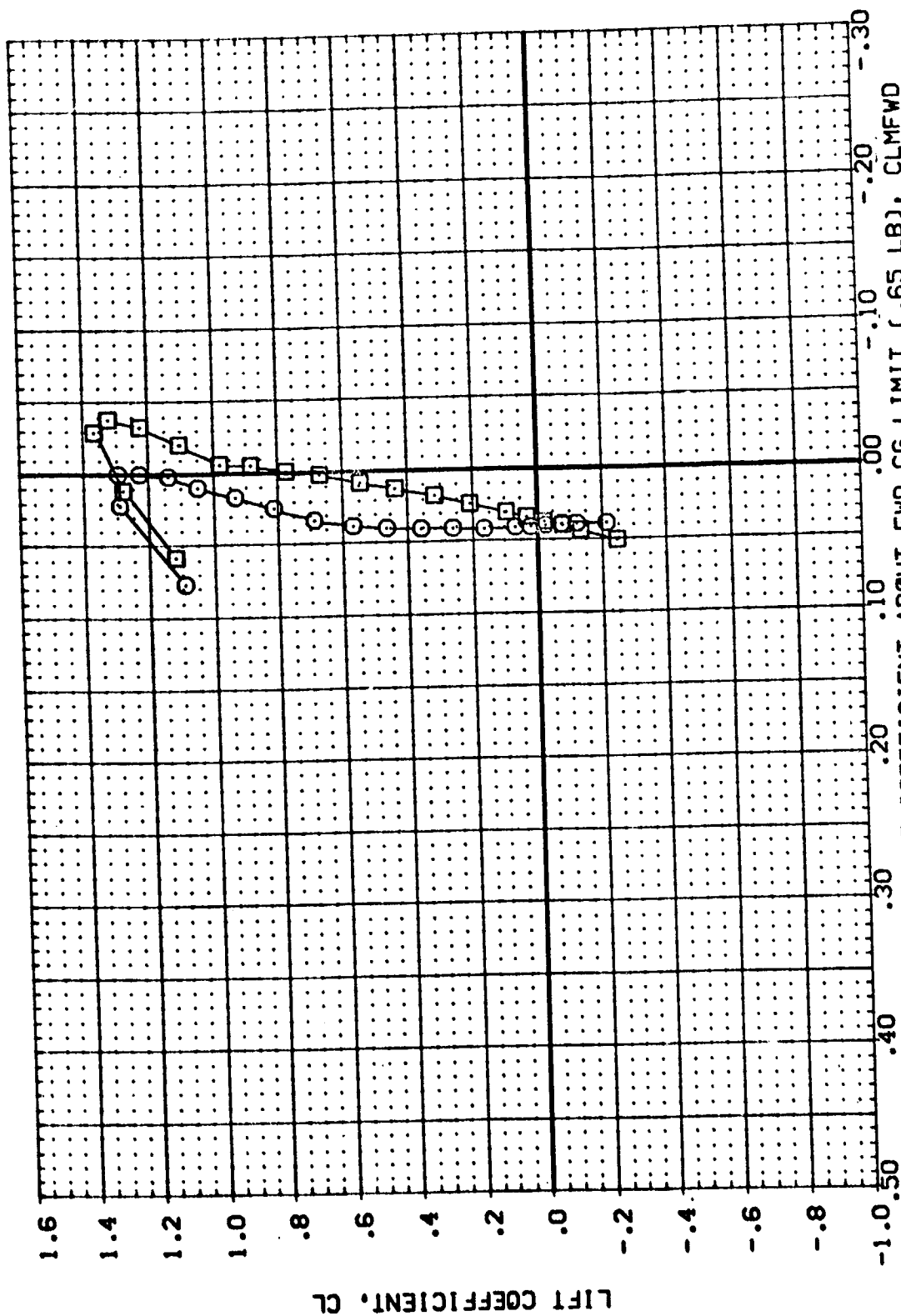


FIG 39

.0-.50	.30	.25	.15	
PITCHING MOMENT COEFFICIENT ABOUT FWD CG LIMIT (.65 LB).	CLMFW			
LONGITUDINAL CHARACTERISTICS	WING EXTENSIONS ONLY	NO NACELLES		

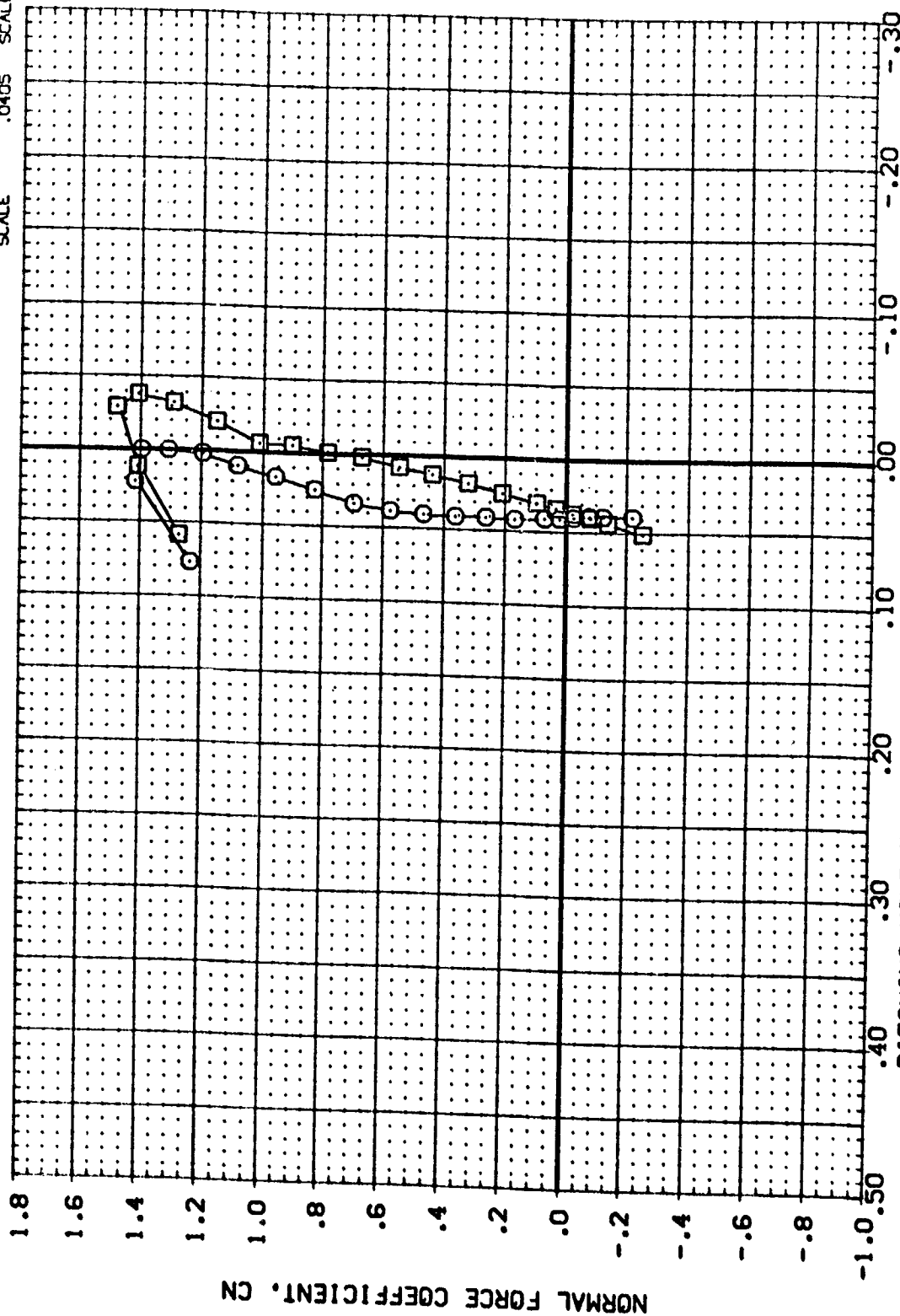
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$$C_{A3}MACH = .20$$

DATA SET SYMBOL    CONFIGURATION DESCRIPTION  
 (ADV001)    □    0A62 B26C9    F8 V116E26V85X9  
 (ADV093)    □    0A62 B26C9    F8 V118E26V85X9

ELEVON    AILRON    BDFLAP    SPD8RK  
 .000    .000    -12.000    .000  
 .000    .000    -12.000    .000

REFERENCE INFORMATION  
 SREF    4.4119    SQ.FT.  
 LREF    19.2299    INCHES  
 BREF    37.9359    INCHES  
 XMRP    43.5974    INCHES  
 YMRP    .0000    INCHES  
 ZMRP    15.1875    INCHES  
 SCALE    .0405    SCALE



PITCHING MOMENT COEFFICIENT ABOUT FWD CG LIMIT (0.65 LB). CLMFW

FIG 39 LONGITUDINAL CHARACTERISTICS WING EXTENSIONS ONLY NO NACELLES

(M)MACH = .20





DATA SET SYMBOL		CONFIGURATION DESCRIPTION		ELEVON		AILRON		BOFLAP		SPDRBK		REFERENCE INFORMATION	
(ADW001)	QAS2	B26C9	F8	V118E26V8R5X9	.000	.000	.000	-12.000	.000	SREF	4.4119	50. FT.	
(ADW053)	QAS2	B26C9	F8	V118E26V8R5X9	.000	.000	.000	-12.000	.000	LREF	19.2298	INCHES	
										BREF	37.9359	INCHES	
										XTRP	43.5974	INCHES	
										YTRP	.0000	INCHES	
										ZTRP	15.1875	INCHES	
										SCALE	.0405	SCALE	

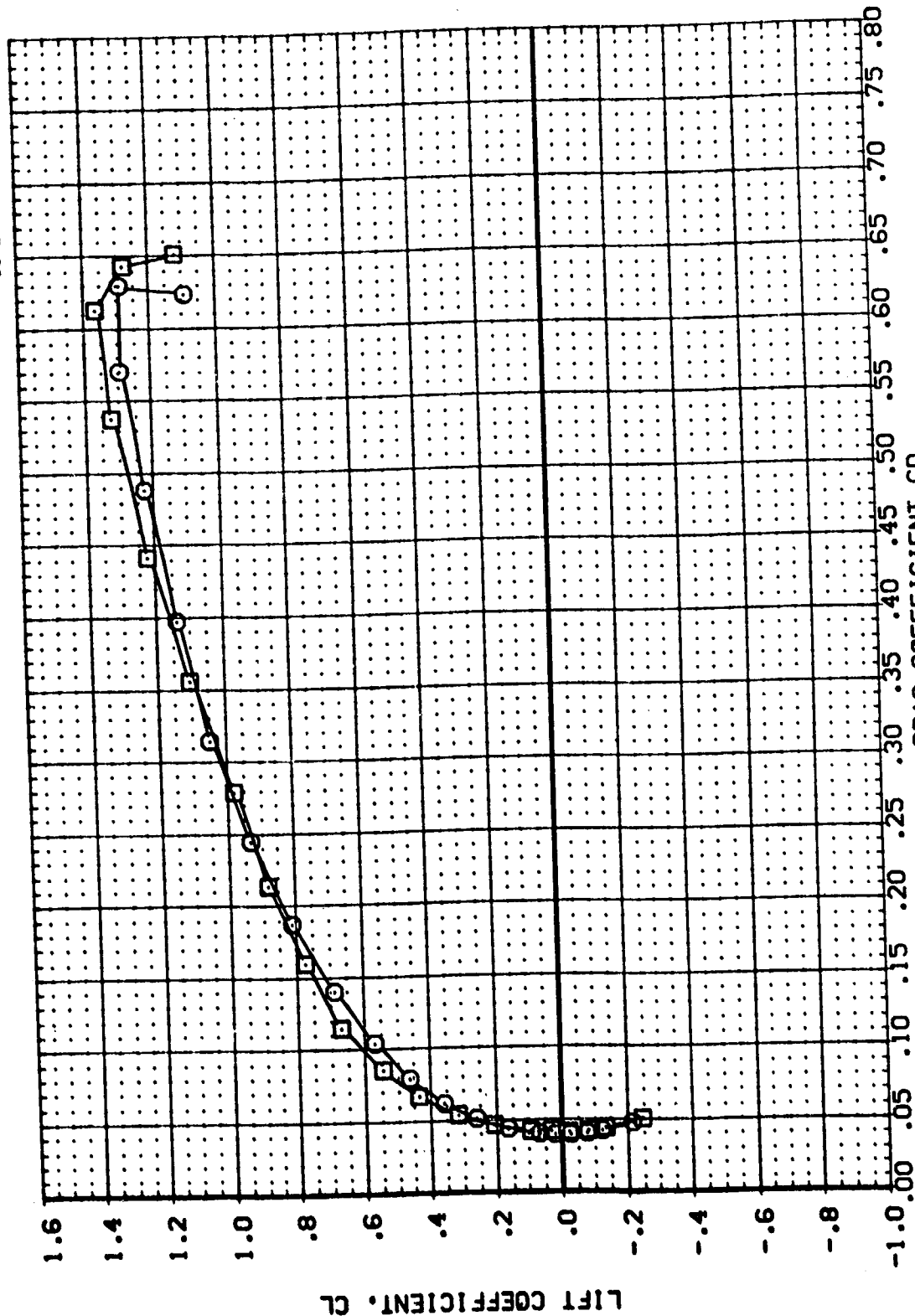


FIG 39 LONGITUDINAL CHARACTERISTICS WING EXTENSIONS ONLY NO NACELLES

(A)MACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	SPDRBK	REFERENCE INFORMATION
(CDV001)	OA62 B26C9 F8	.000	.000	-12.000	.000	4.4119 SO.FT.
(CDV033)	OA62 B26C9 F8	.000	.000	-12.000	.000	19.2299 INCHES
(CDV036)	OA62 B26C9 F8	.000	.000	-12.000	.000	37.9359 INCHES
						44.3813 INCHES
						.0000 INCHES
						15.1875 INCHES
						.0405 SCALE

PITCHING MOMENT COEFFICIENT ABOUT AFT CG LIMIT (.675 LB). CLMAFT

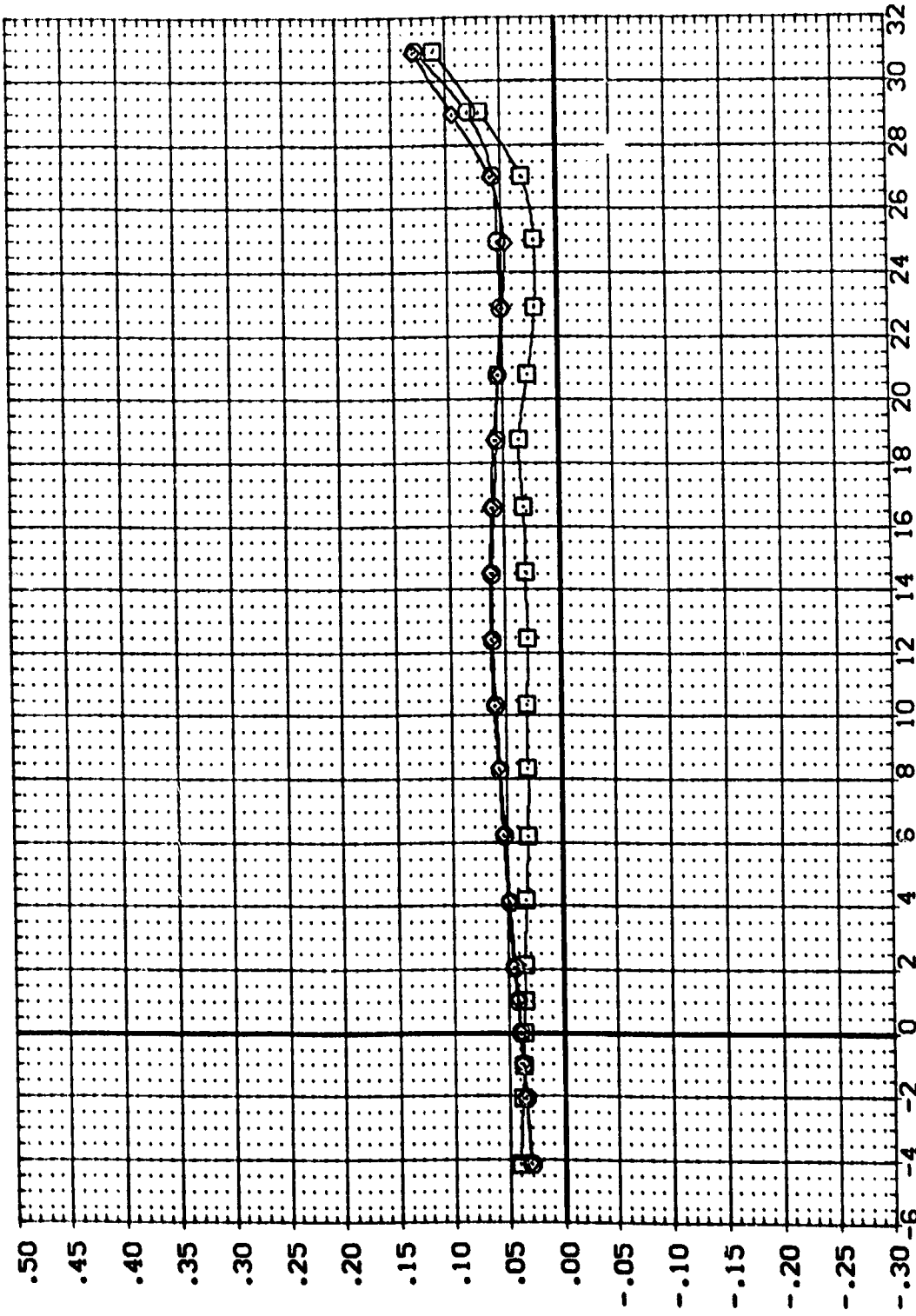


FIG 39 LONGITUDINAL CHARACTERISTICS WING EXTENSIONS ONLY NO NACELLES

(A)MACH = .20

DATA SET	SYMBOL	CONFIGURATION	DESCRIPTION
(R0V004)	□	DA62 B26C9	F8 V11B26V8C9X9
(R0V005)	□	DA62 B26C9	F8 V11B26V8C9X9
(R0V002)	□	DA62 B26C9	F8 V11B26V8C9X9
(R0V004)	□	DA62 B26C9	F8 V11B26V8C9X9

ALPHA	SPDRBK	RUDDER	AIRLON
.000	.000	.000	.000
10.000	.000	.000	.000
10.000	.000	.000	.000

REFERENCE INFORMATION	
SREF	4.4119 SO.FT.
LREF	19.2299 INCHES
BREF	37.9359 INCHES
XMRP	43.1000 INCHES
YMRP	15.1875 INCHES
SCALE	.0405

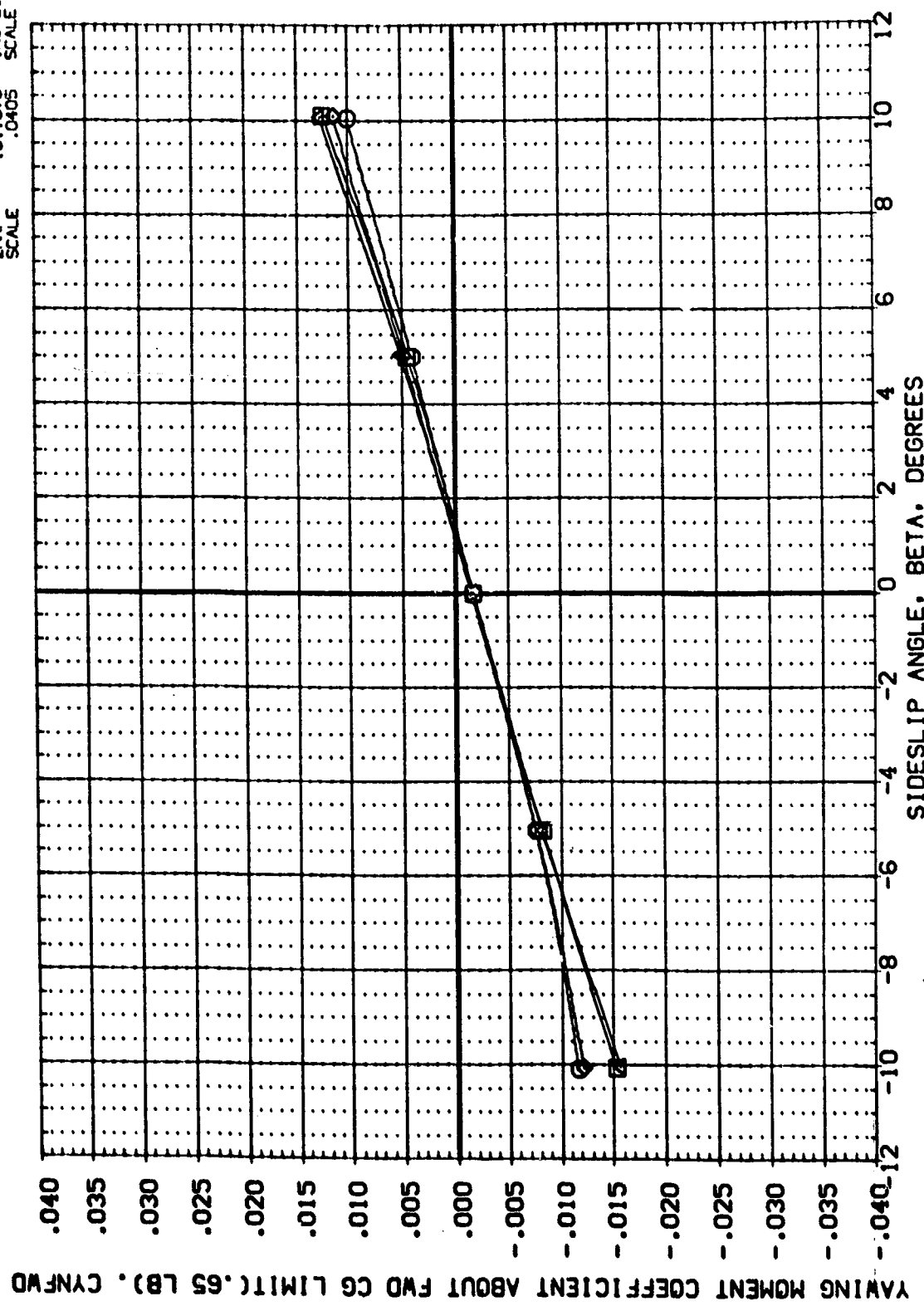


FIG 40 LAT. / DIR. CHARACTERISTICS WING EXTENSIONS ONLY NO NACELLES

(A)MACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	SPOBRK	RUDER	AILERON	REFERENCE INFORMATION
(RDV094)	DA62 B26C9 F8 V118E26V8K5X9	.000	.000	.000	.000	SREF 4.4119 SQ.FT.
(RDV095)	DA62 B26C9 F8 V118E26V8K5X9	10.000	.000	.000	.000	LREF 19.2299 INCHES
(RDV096)	DA62 B26C9 F8 V118E26V8K5X9	.000	.000	.000	.000	BREF 37.9359 INCHES
(RDV097)	DA62 B26C9 F8 V118E26V8K5X9	10.000	.000	.000	.000	YMRP 43.5974 INCHES
(RDV098)	DA62 B26C9 F8 V118E26V8K5X9	.000	.000	.000	.000	ZMRP .0000 INCHES
(RDV099)	DA62 B26C9 F8 V118E26V8K5X9	10.000	.000	.000	.000	SCALE 15.1875 INCHES
(RDV100)	DA62 B26C9 F8 V118E26V8K5X9	.000	.000	.000	.000	SCALE .0405

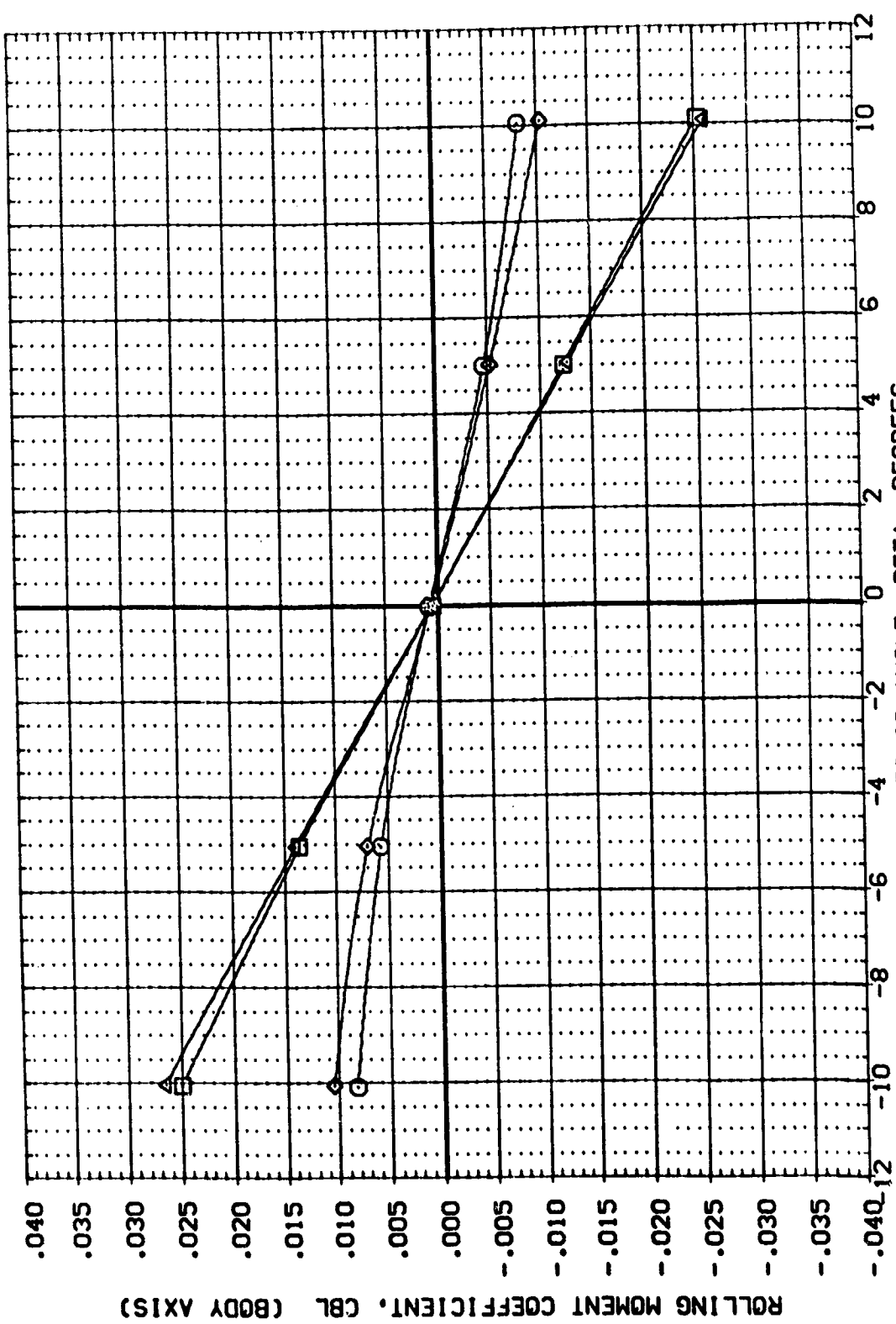


FIG 40 LAT. / DIR. CHARACTERISTICS WING EXTENSIONS ONLY NO NACELLES  
 (A)MACH = .20  
 PAGE 308



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	SPOBRK	RUDDER	AILERON	REFERENCE INFORMATION
(RDV094)	0A62 B26C9 F8 V116E26V8R5X9	.000	.000	.000	.000	SREF 4.4119 SO.FT
(RDV055)	0A62 B26C9 F8 V116E26V8R5X9	10.000	.000	.000	.000	LREF 19.2299 INCHES
(RDV002)	0A62 B26C9 F8 V116E26V8R5X9	.000	.000	.000	.000	BREF 37.9359 INCHES
(RDV004)	0A62 B26C9 F8 V116E26V8R5X9	10.000	.000	.000	.000	XMRP 43.5974 INCHES
						YMRP .0000 INCHES
						ZMRP 15.1875 INCHES
						SCALE .0405

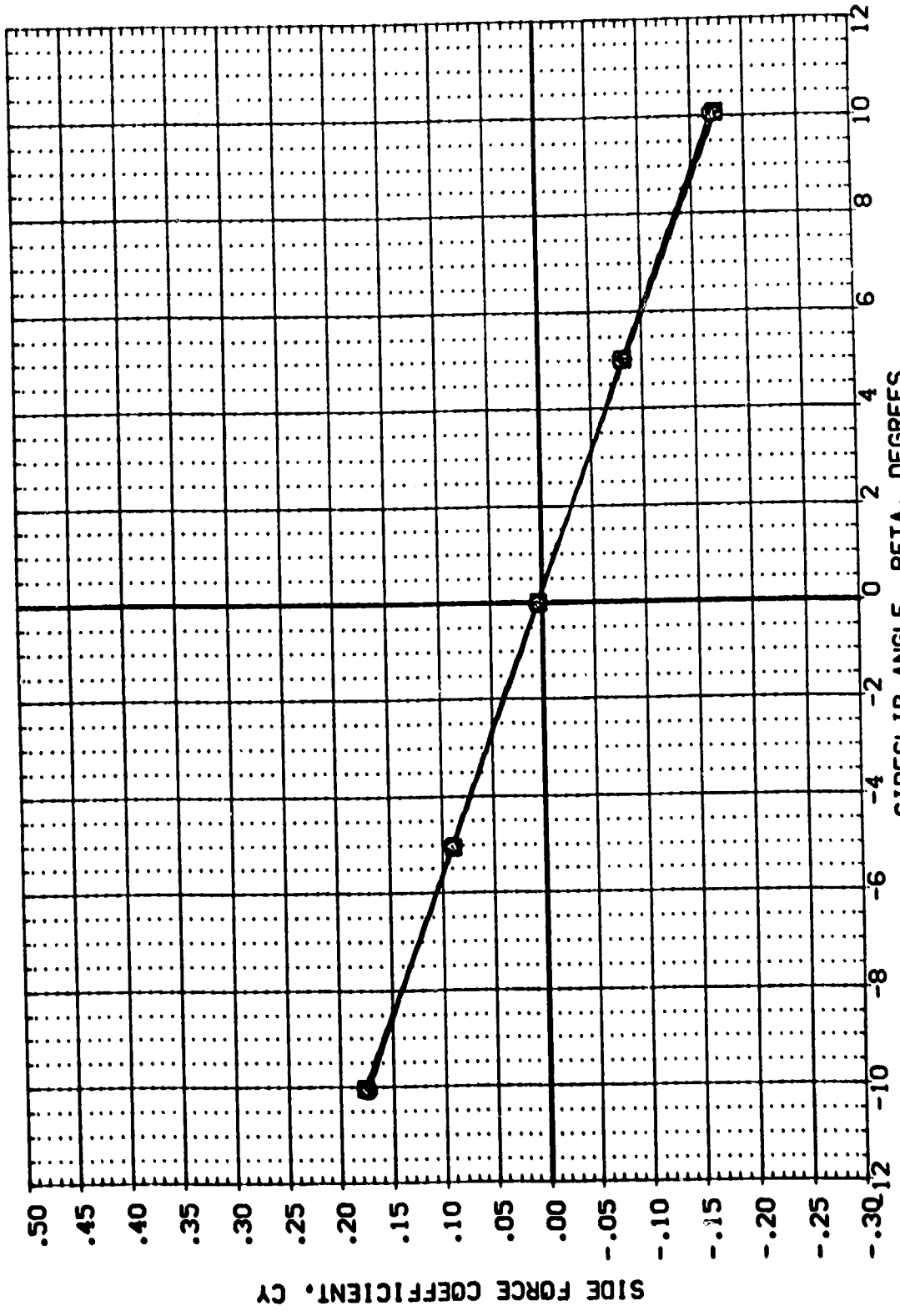


FIG 40 LAT. / DIR. CHARACTERISTICS WING EXTENSIONS ONLY NO NACELLES

(A)MACH = .20

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		NACA/L		ELEVON		BDFLAP		SPOBRK		REFERENCE INFORMATION	
(EDV094)	0A62	B26C9	F8	V11E26V8K5X9		.000	.000	-12.000	.000	SREF	4.4119	50. FT.	
(EDV002)	0A62	B26C9	F8	V11E26V8K5X9		.000	.000	-12.000	.000	LREF	19.2288	INCHES	
										BREF	37.3359	INCHES	
										XMRP	43.5374	INCHES	
										YMRP	15.0000	INCHES	
										ZMRP	15.1875	INCHES	
										SCALE	.0405	SCALE	

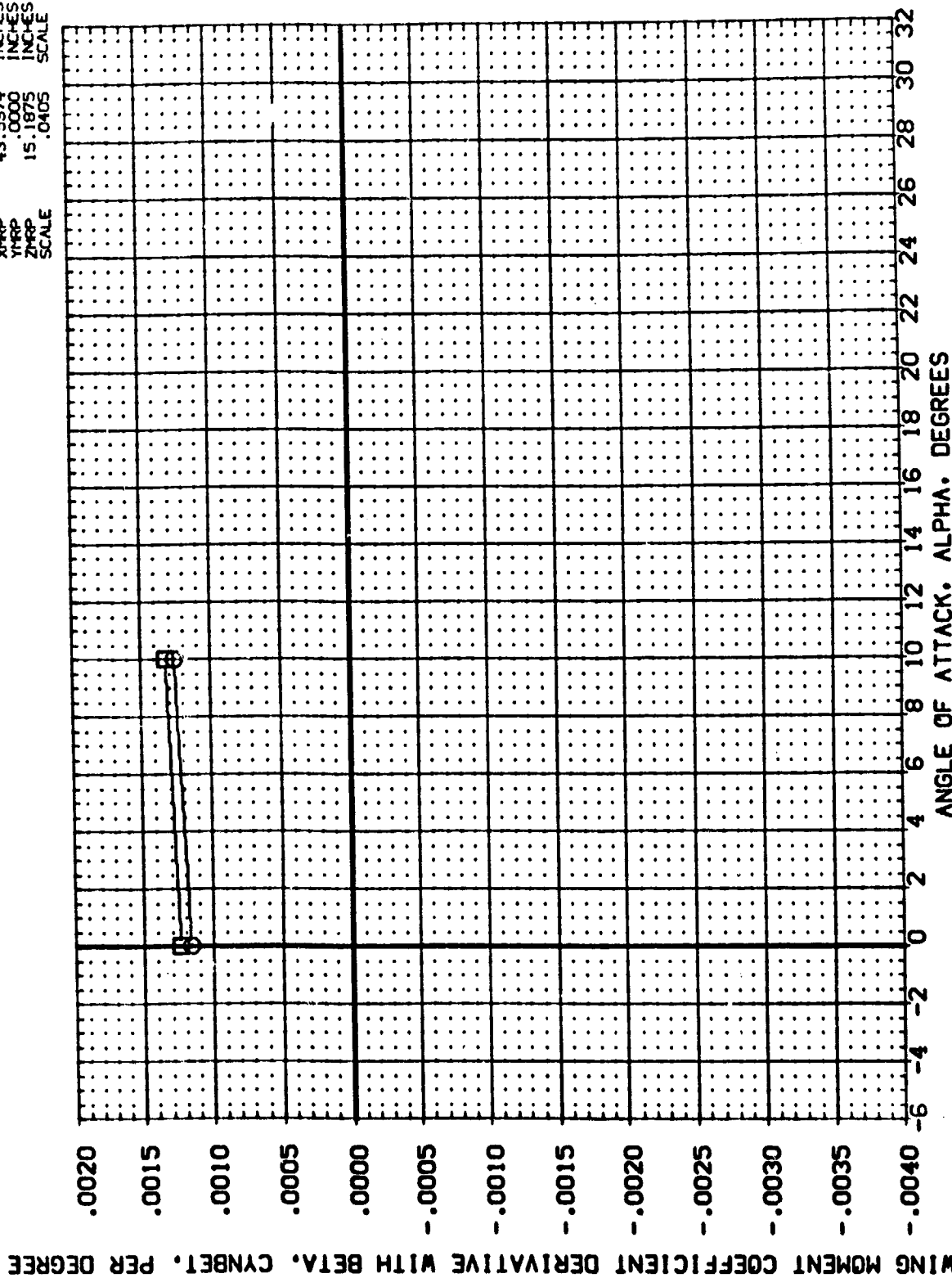


FIG 40 LAT. / DIR. CHARACTERISTICS WING EXTENSIONS ONLY NO NACELLES

DATA SET SYMBOL: (EDV034) 0462 826C9 F8 V118E26V85X9  
 (EDV002) 0462 826C9 F8 V118E26V85X9

ELEVON 80FLA: .000 -12.000  
 .000 .000

REFERENCE INFORMATION  
 SREF 4.4119 SQ.FT.  
 LREF 19.2299 INCHES  
 BREF 37.9359 INCHES  
 XMRP 43.5974 INCHES  
 YMRP .0000 INCHES  
 ZMRP 15.1875 INCHES  
 SCALE .0405

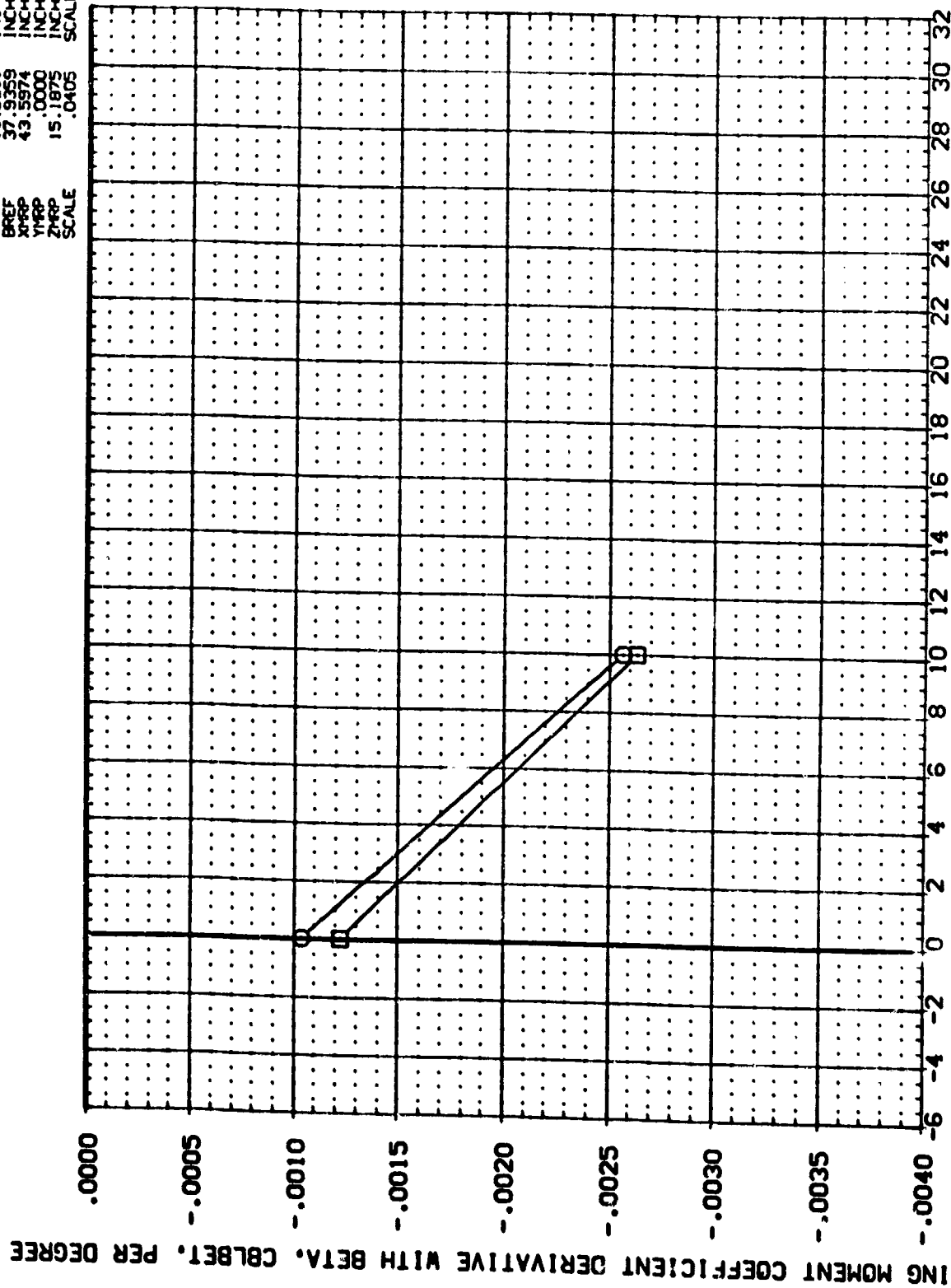


FIG 40 LAT. / DIR. CHARACTERISTICS WING EXTENSIONS ONLY NO NACELLE

DATA SET SYMBOL: **B** CONFIGURATION DESCRIPTION: **DA62 B26C9 F8 V11B26V8RSX9**  
**(EDV094)** **B26C9 F8 V11B26V8RSX9**  
**(EDV002)** **DA62 B26C9 F8 V11B26V8RSX9**

ELEVON BOFLAP SPDRXK  
 .000 -12.000 .000  
 .000 -12.000 .000

REFERENCE INFORMATION  
 SREF 4.4119 SQ.FT.  
 LREF 19.2299 INCHES  
 BREF 37.9359 INCHES  
 XMRP 43.5974 INCHES  
 YMRP .0000 INCHES  
 ZMRP 15.1875 INCHES  
 SCALE .0405

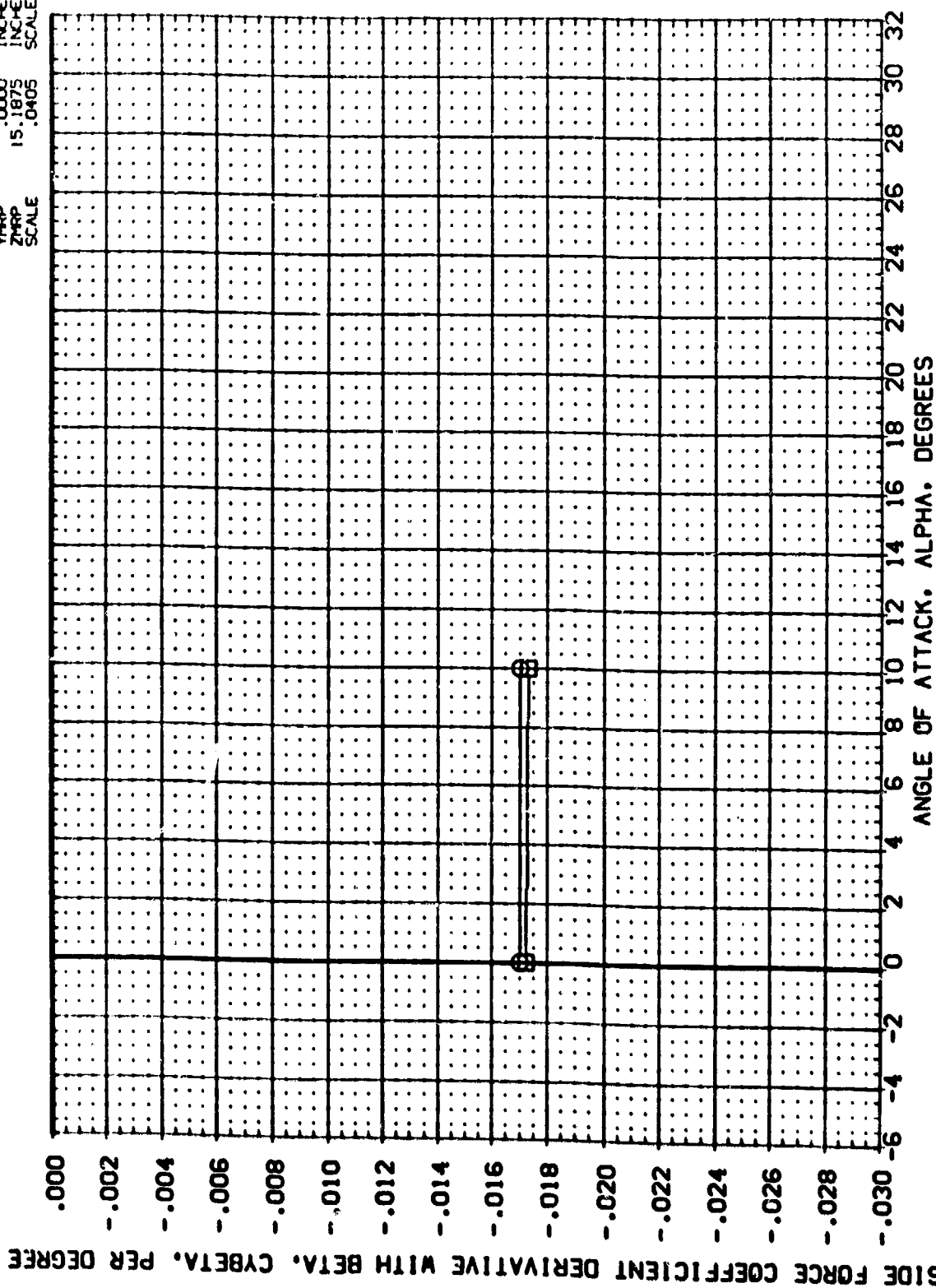


FIG 40 LAT. / DIR. CHARACTERISTICS WING EXTENSIONS ONLY NO NACELLES





DATA SET SYMBOL	CONFIGURATION	DESCRIPTION	NACA	ELEVON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(AD0044)	0A52	B26C9	.730	.000	-12.000	.000	SREF 4.4119 SO.FT.
(AD0078)	0A52	B26C9	.730	.000	-12.000	.000	LREF 19.2259 INCHES
							BREF 37.9359 INCHES
							XREF 43.5974 INCHES
							YREF .0000 INCHES
							ZREF 15.1875 INCHES
							SCALE .0405

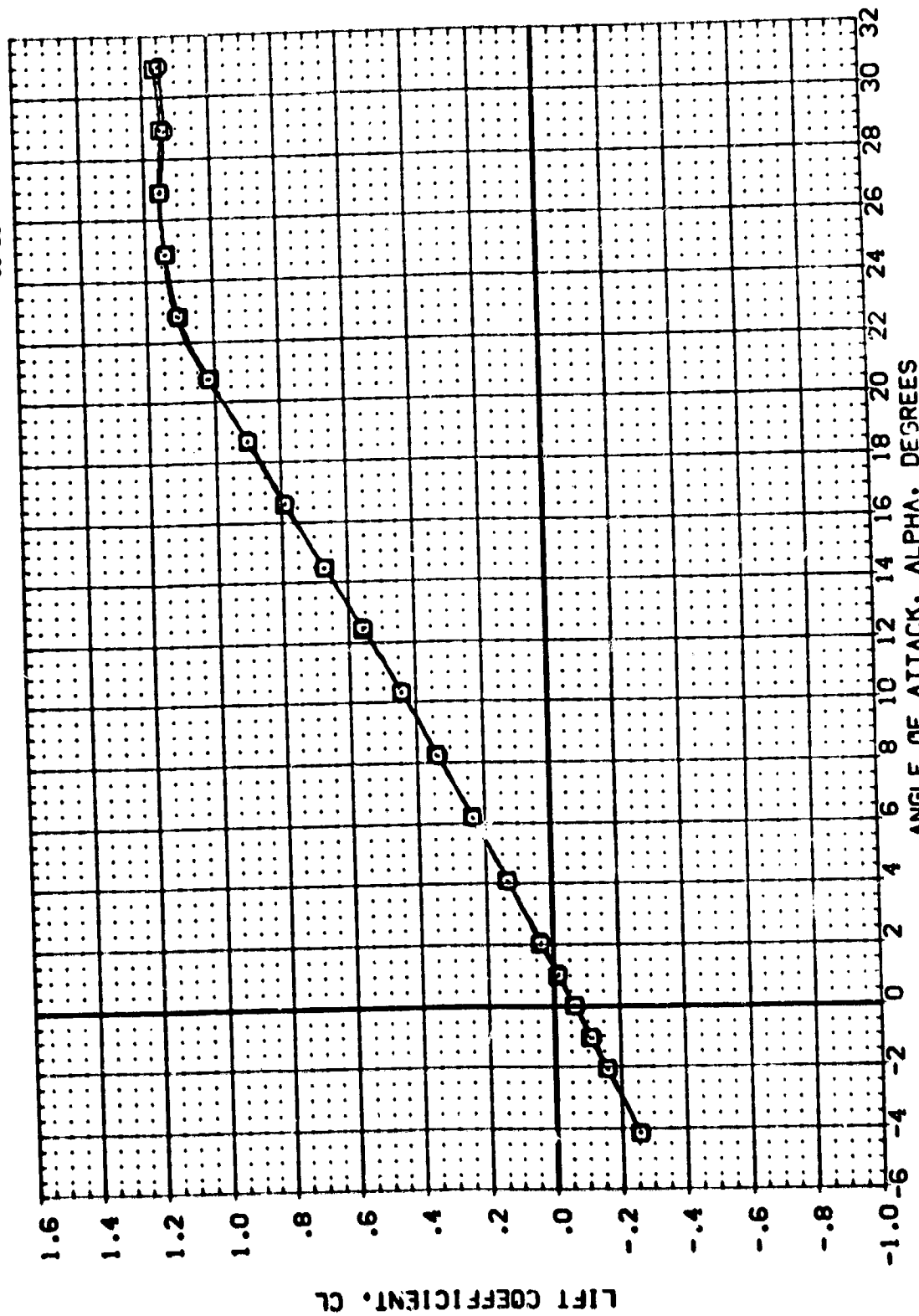


FIG 41 LONG. CHARACTERISTICS UNDER CLUSTERS X0= 1100 DATA REPEATABILITY

(A)MACH = .20

DATA SET SYMBOL (ADV044) (ADV078)

CONFIGURATION DESCRIPTION

DAG2 926C9 FBJ48V116E26V8RSX10  
DAG2 926C9 FBJ48V116E26V8RSX10

NACTAL ELEVON BOFLAP SPOBRK

SREF  
LREF  
BREF  
XMRP  
YMRP  
ZMRP  
SCALE

REFERENCE INFORMATION  
4.4119 50. FT.  
19.2299 INCHES  
37.9359 INCHES  
43.5974 INCHES  
10.000 INCHES  
15.1875 INCHES  
.0405 SCALE

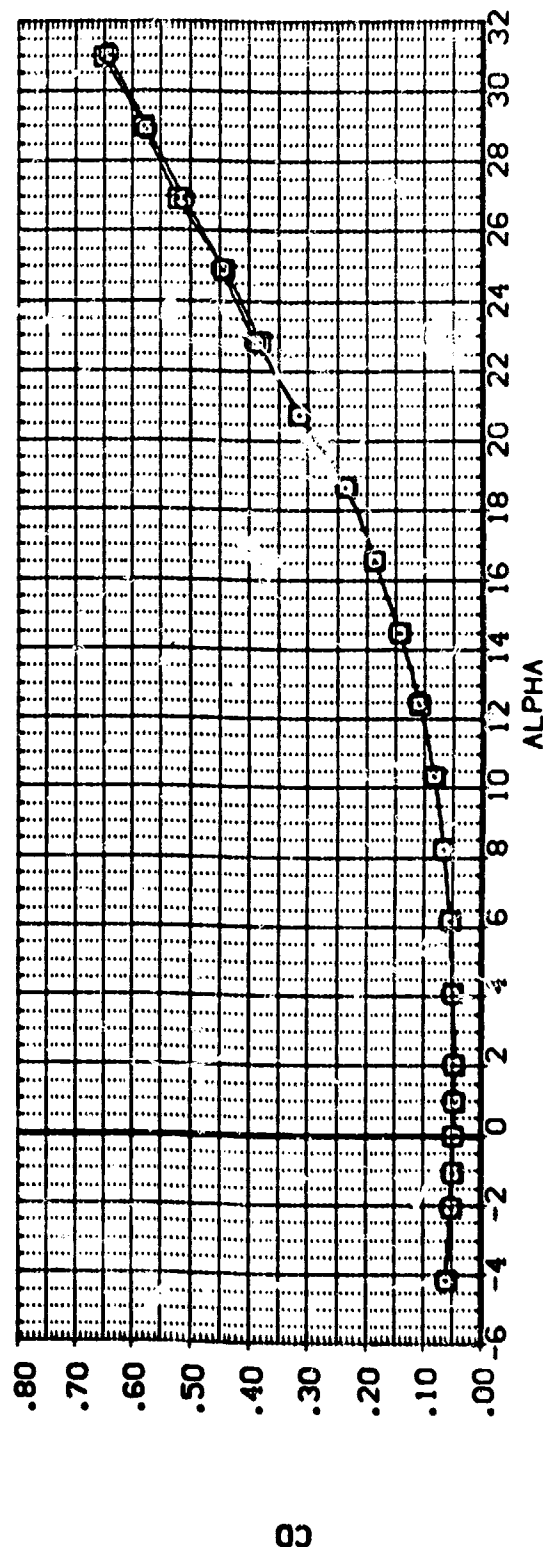
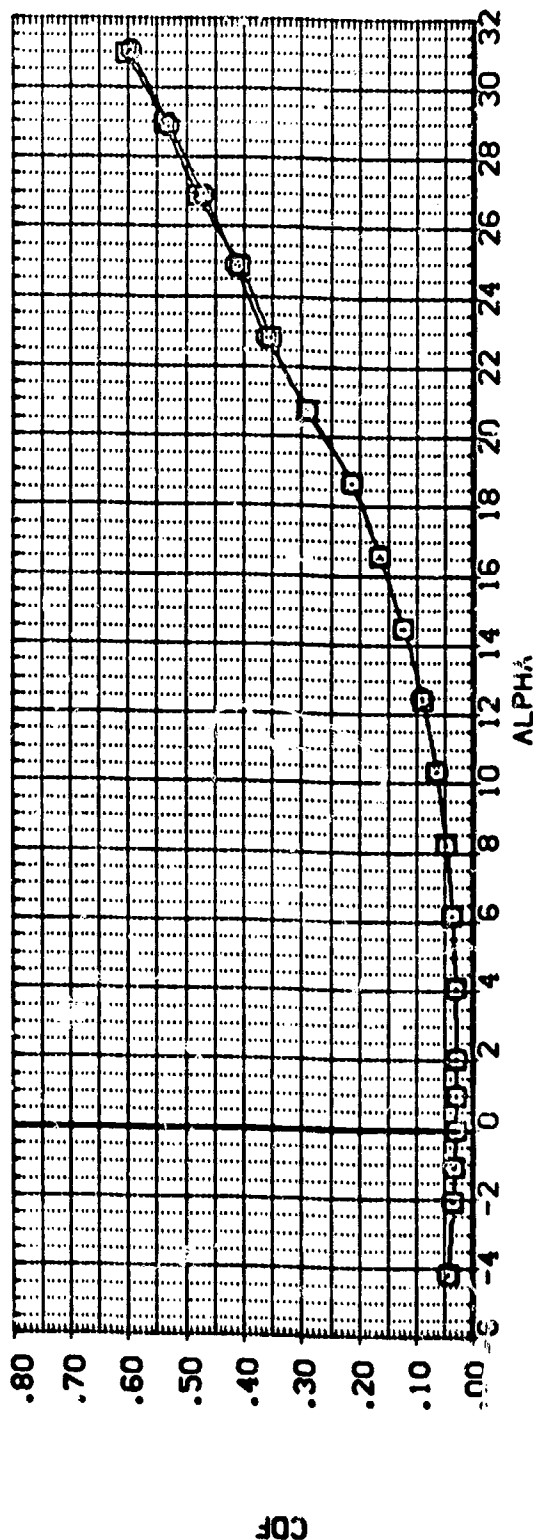


FIG 41 LONG. CHARACTER. 3 UNDER CLUSTERS X0= 1100 DATA REPEATABILITY

(A)MACH = .20

DATA SET SYMBOL: (ADW044)  
 (ADW078)  
 CONFIGURATION DESCRIPTION:  
 DAG2 B26C9 3/48V/16E26V85X10  
 DAG2 B26C9 F8/48V/16E26V85X10

NACX/L: .730  
 ELEVON: .000  
 BOFLAP: .000  
 SPOBRK: .000

REFERENCE INFORMATION:  
 SREF: 4.4119 SO.FT.  
 LREF: 19.2299 INCHES  
 BREF: 37.9359 INCHES  
 XMRP: 43.5974 INCHES  
 YMRP: .0000 INCHES  
 ZMRP: 15.1875 INCHES  
 SCALE: .0405

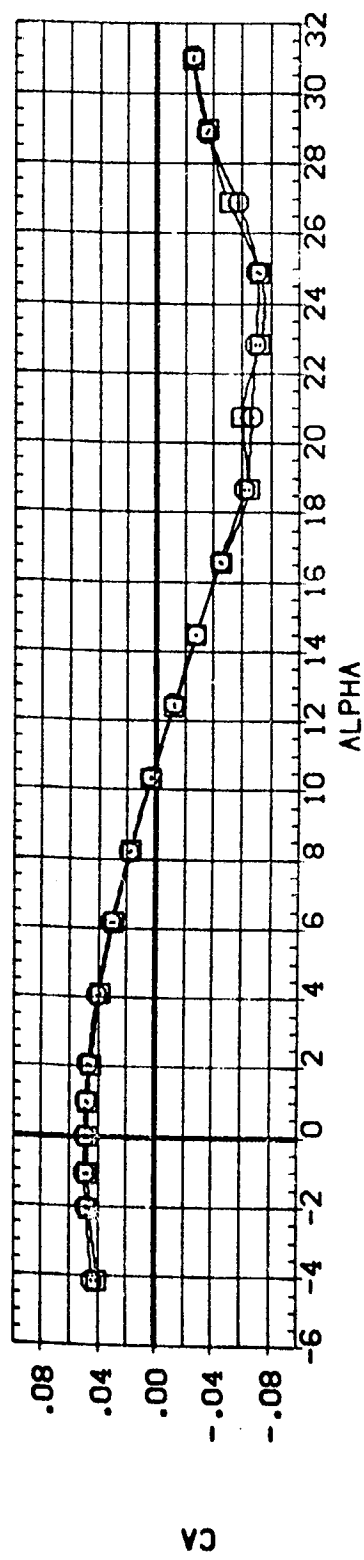
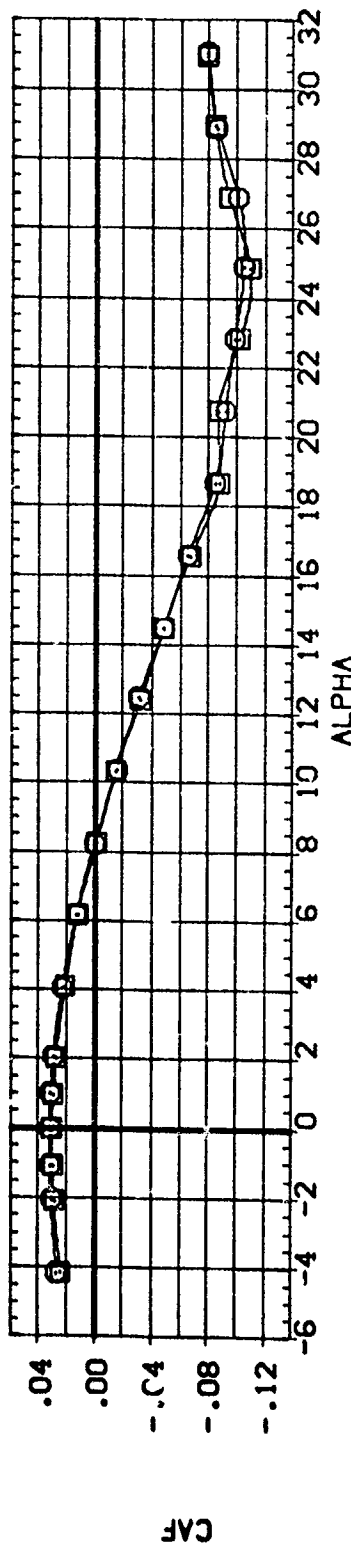
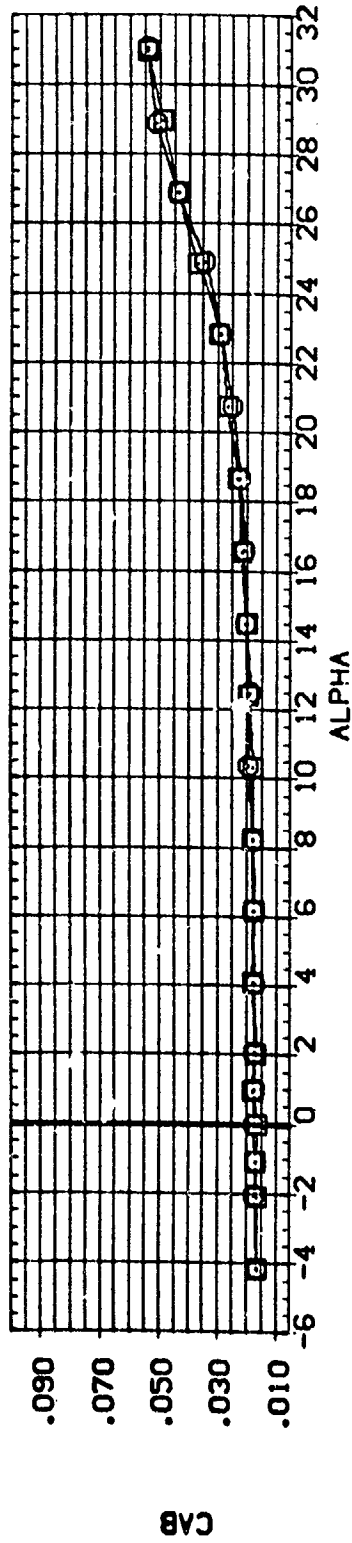


FIG 41 LONG. CHARACTERISTICS UNDER CLUSTERS X0= 1100 DATA REPEATABILITY

(A)MACH = .20

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		REFERENCE INFORMATION	
(ADV044)	QAG2	B26C9	FBJ48V11BE26VBR5X10	SREF	4.4119 SQ.FT.
(ADV078)	QAG2	B26C9	FBJ48V11BE26VBR5X10	LREF	19.2299 INCHES
				BREF	37.9359 INCHES
				YMRP	43.5974 INCHES
				YMRP	0.0000 INCHES
				ZMRP	15.1875 INCHES
				SCALE	.0405 SCALE

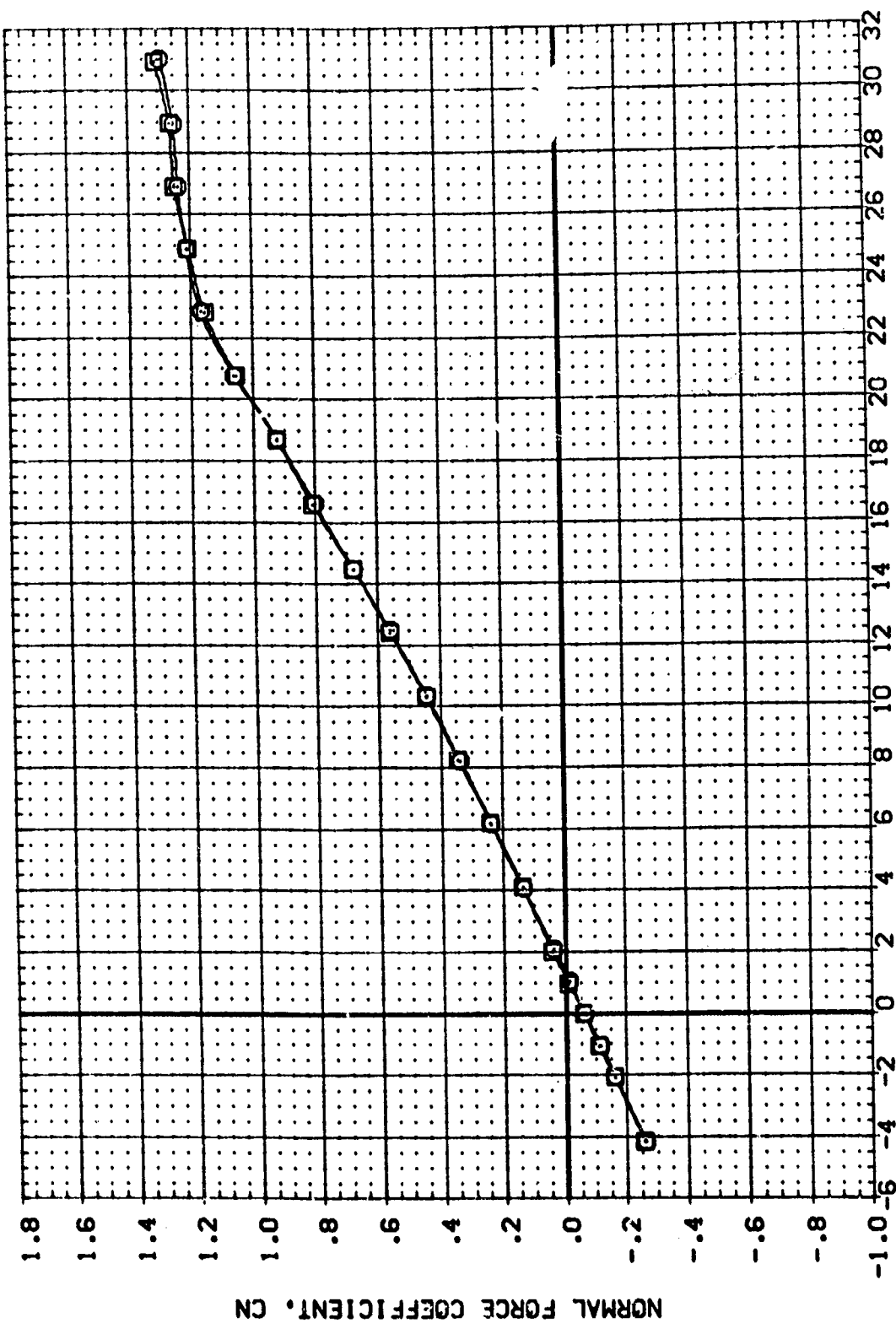


FIG 41 LONG. CHARACT. 3 UNDER CLUSTERS X0= 1100 DATA REPEATABILITY

DATA SET SYMBOL: (ADV044) ☐ (ADV078) ☐

CONFIGURATION DESCRIPTION:  
 0A62 B26C9 FBJ48V116E26V8K5X10  
 0A62 B26C9 FBJ48V116E26V8K5X10

REFERENCE INFORMATION:  
 SREF 4.4119 SO.FT.  
 LREF 19.2299 INCHES  
 BREF 37.9359 INCHES  
 XTRP 43.5974 INCHES  
 YTRP 15.0000 INCHES  
 ZTRP 15.1875 INCHES  
 SCALE .0405

NACK/L .730  
 ELEVON .000  
 BDFLAP -12.000  
 SPOBRK .000

PITCHING MOMENT COEFFICIENT ABOUT FWD CG LIMIT (.65 LB), CLMFW

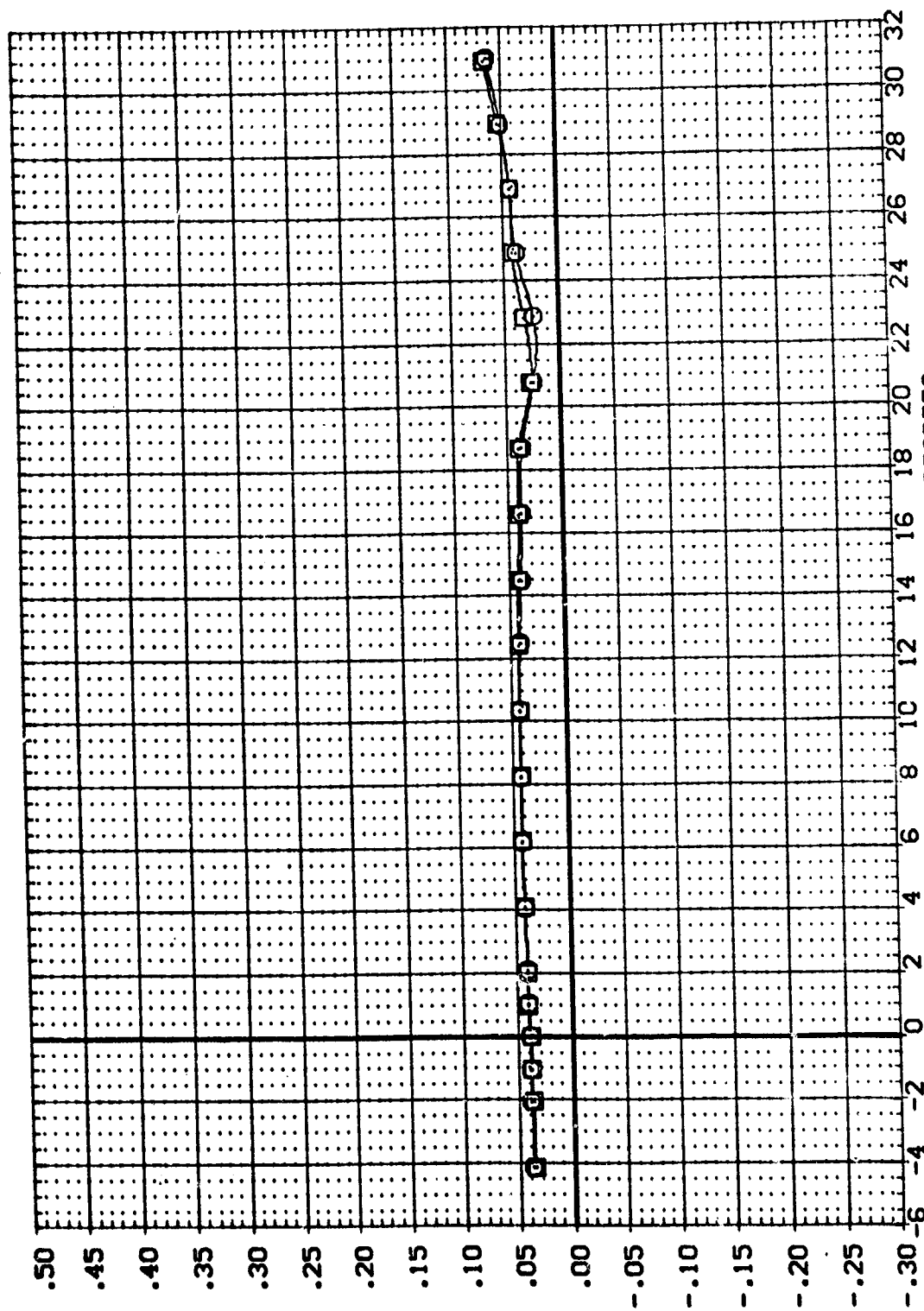


FIG 41 LONG. CHARACTER. 3 UNDER CLUSTERS X0= 1100 DATA REPEATABILITY

(AJMACH = .20

DATA SET SYMBOL  
(ADV044)  
(ADV078)

CONFIGURATION DESCRIPTION  
FB448V116E26V8R5X10  
FB448V116E26V8R5X10

NACA/L  
.730  
.730

ELEVON  
.000  
.000

BOFLAP  
-12.000  
-12.000

SPOBRK  
.000  
.000

REFERENCE INFORMATION  
SREF 4.419 SQ.FT.  
LREF 19.2399 INCHES  
BREF 37.9359 INCHES  
XMRP 43.5974 INCHES  
YMRP .0000 INCHES  
ZMRP 15.1875 INCHES  
SCALE .0405

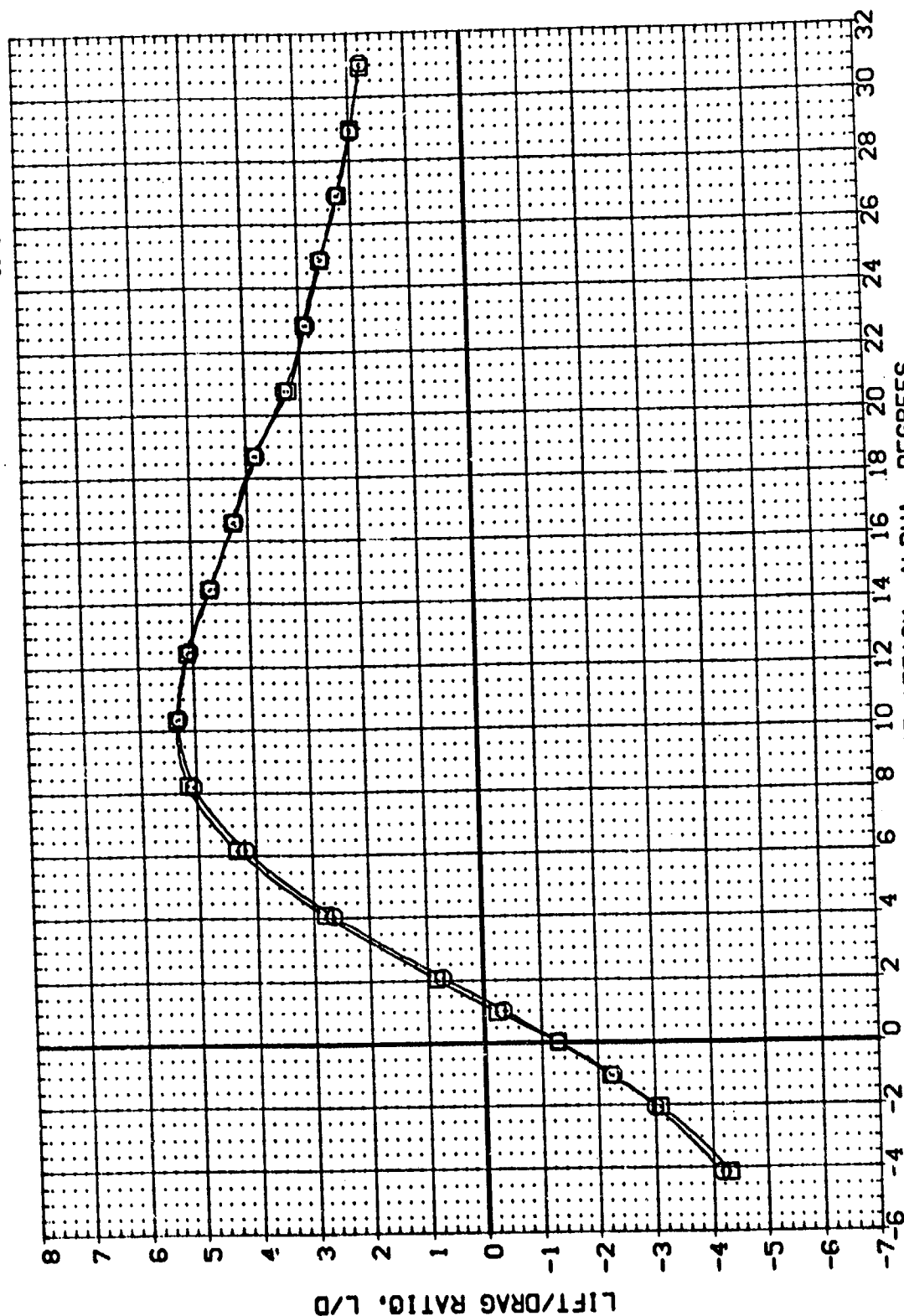


FIG 41 LONG. CHARACT. 3 UNDER CLUSTERS X0= 1100 DATA REPEATABILITY

(A)MACH = .20



DATA SET SYMBOL  
(ADV044)  
(ADV078)

CONFIGURATION  
0A62 B26C9  
0A62 B26C9

DESCRIPTION  
FBJ48V116E26V85X10  
FRJ48V116E26V85X10

NACK/L  
.730  
.730

ELEVON  
.000  
.000

BD/FLAP  
-12.000  
-12.000

SPOBRK  
.000  
.000

REFERENCE INFORMATION  
SREF 4.4119 SO.FT.  
LREF 19.2299 INCHES  
BREF 37.9359 INCHES  
XMRP 43.5974 INCHES  
YMRP .0000 INCHES  
ZMRP 15.1875 INCHES  
SCALE .0405

LONGITUDINAL CENTER OF PRESSURE LOCATION, FRACTION BODY LENGTH XCP/L

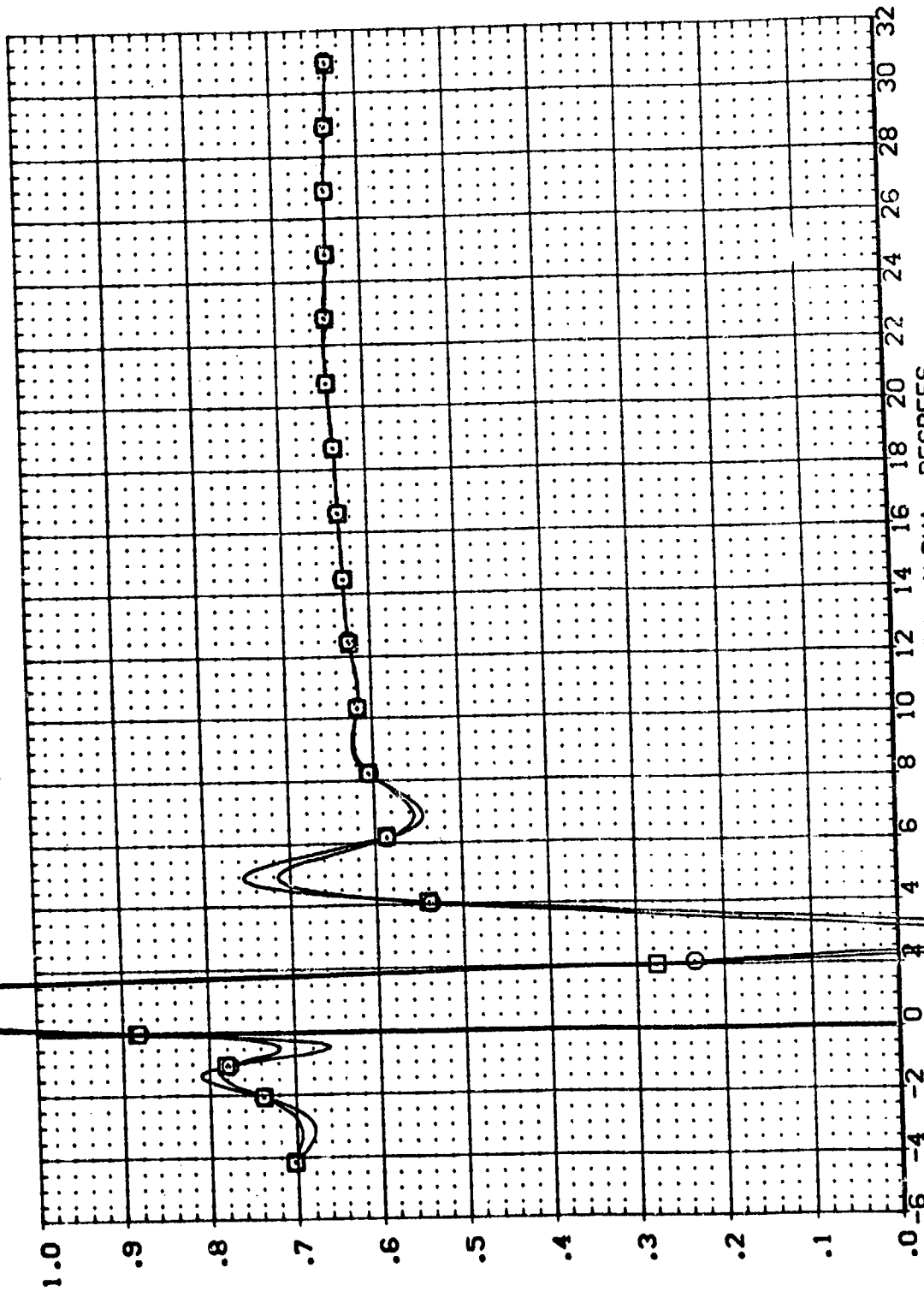



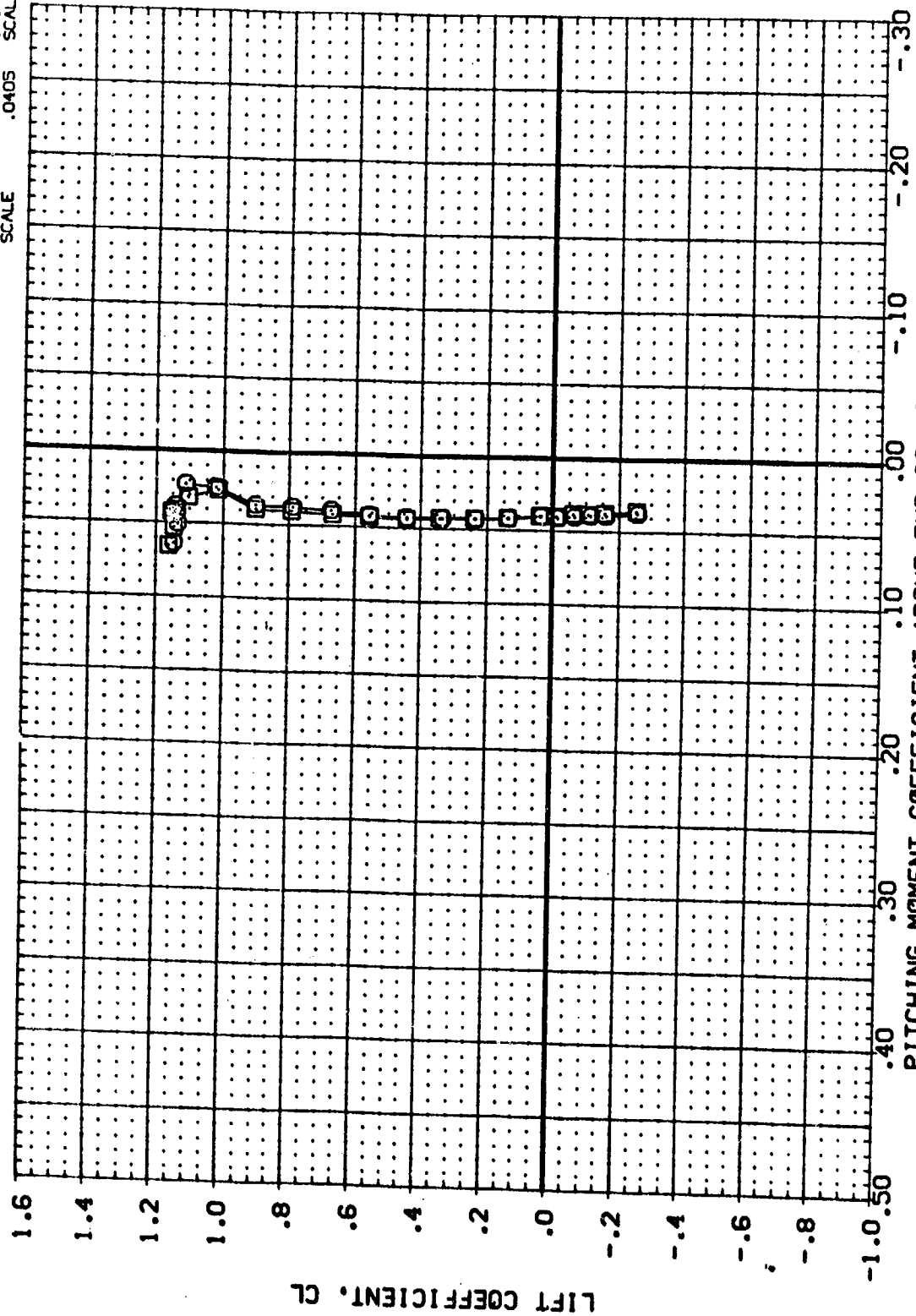
FIG 41 LONG. CHARACTER. 3 UNDER CLUSTERS X0= 1100 DATA REPEATABILITY

(A)MACH = .20

DATA SET SYMBOL (ADW044) (ADW078)  CONFIGURATION DESCRIPTION FBJ48V116E26V85X10 FBJ48V116E26V85X10

NACA/L .730 ELEVON .000 .000 BOFLAP -12.000 -12.000 SPOBRK .000 .000

REFERENCE INFORMATION SREF 4.4119 SO.FT. LREF 19.2239 INCHES BREF 37.9359 INCHES XMRP 43.5974 INCHES YMRP .0000 INCHES ZMRP 15.1875 INCHES SCALE .0405



PITCHING MOMENT COEFFICIENT ABOUT FWD CG LIMIT (.65 LB). CLMFWD

FIG 41 LONG. CHARACT. 3 UNDER CLUSTERS X0= 1100 DATA REPEATABILITY

(A)MACH = .20



DATA SET SYMBOL (ADV044) (ADV078)  CONFIGURATION DESCRIPTION  
 0A52 B26C9 FB/48V116E26V8K5X10  
 0A52 B26C9 FB/48V116E26V8K5X10

NACX/L ELEVON BOFLAP SPOBRK REFERENCE INFORMATION  
 .730 .000 -12.000 .000 4.4119 SQ.FT.  
 .730 .000 -12.000 .000 19.2299 INCHES  
 .000 .000 .000 .000 37.9359 INCHES  
 .000 .000 .000 .000 43.5974 INCHES  
 .000 .000 .000 .000 15.1875 INCHES  
 .000 .000 .000 .000 15.1875 INCHES  
 .000 .000 .000 .000 .0405 INCHES  
 .000 .000 .000 .000 .0405 INCHES

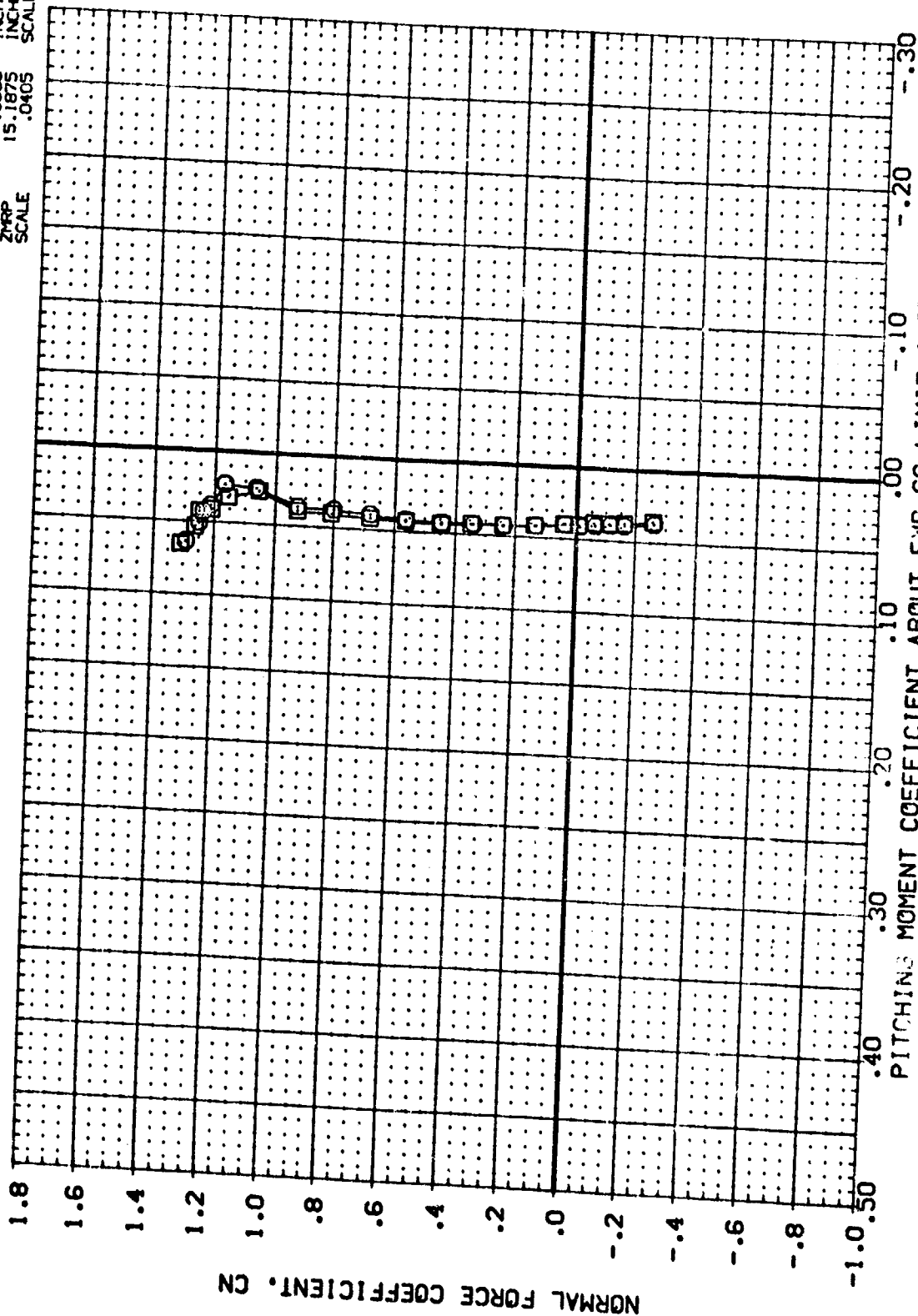


FIG 41 LONG. CHAR/CT. 3 UNDER CLUSTERS X0= 1100 DATA REPEATABILITY  
 (ADMACH = .20)

DATA SET SYMOL		CONFIGURATION DESCRIPTION	REFERENCE INFORMATION	
(ADW044)	8	B26C9 FB448V116E26V8RSX10	SREF	4.4119 SO.FT.
(ADW078)	8	B26C3 FB448V116E26V8RSX10	LREF	19.2298 INCHES
			BREF	37.9359 INCHES
			XMRP	43.5374 INCHES
			YMRP	15.0000 INCHES
			ZMRP	15.1875 INCHES
			SCALE	.0405 SCALE

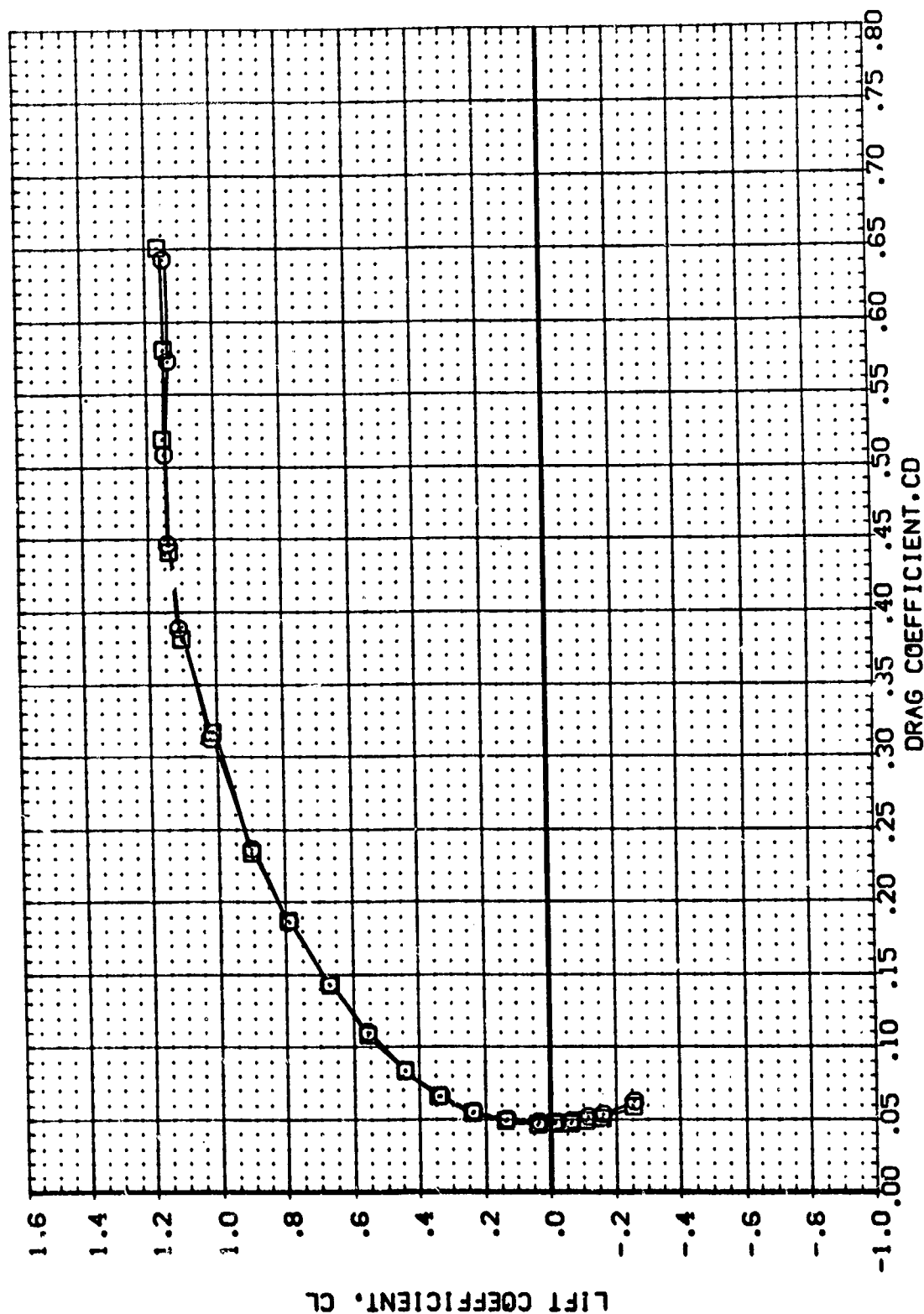


FIG 41 LONG. CHARACT. 3 UNDER CLUSTERS X0= 1100 DATA REPEATABILITY

(A)MACH = .20

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		MACH/A		ELEVON		BDFLAP		SPDBRK		REFERENCE INFORMATION			
(CDW044)	Q462	B26C9	F8J48V116E26V8R5X10	.730	.000	.000	.000	.000	.000	SREF	4.4119	SO.FT			
(CDW078)	Q462	B26C9	F8J48V116E26V8R5X10	.730	.000	.000	.000	.000	.000	LREF	19.2299	INCHES			
										BREF	37.9359	INCHES			
										XMRP	44.3813	INCHES			
										YMRP	.0000	INCHES			
										ZMRP	15.1875	INCHES			
										SCALE	.0405	SCALE			

PITCHING MOMENT COEFFICIENT ABOUT AFT CG LIMIT (.675 LB). CLMAFT

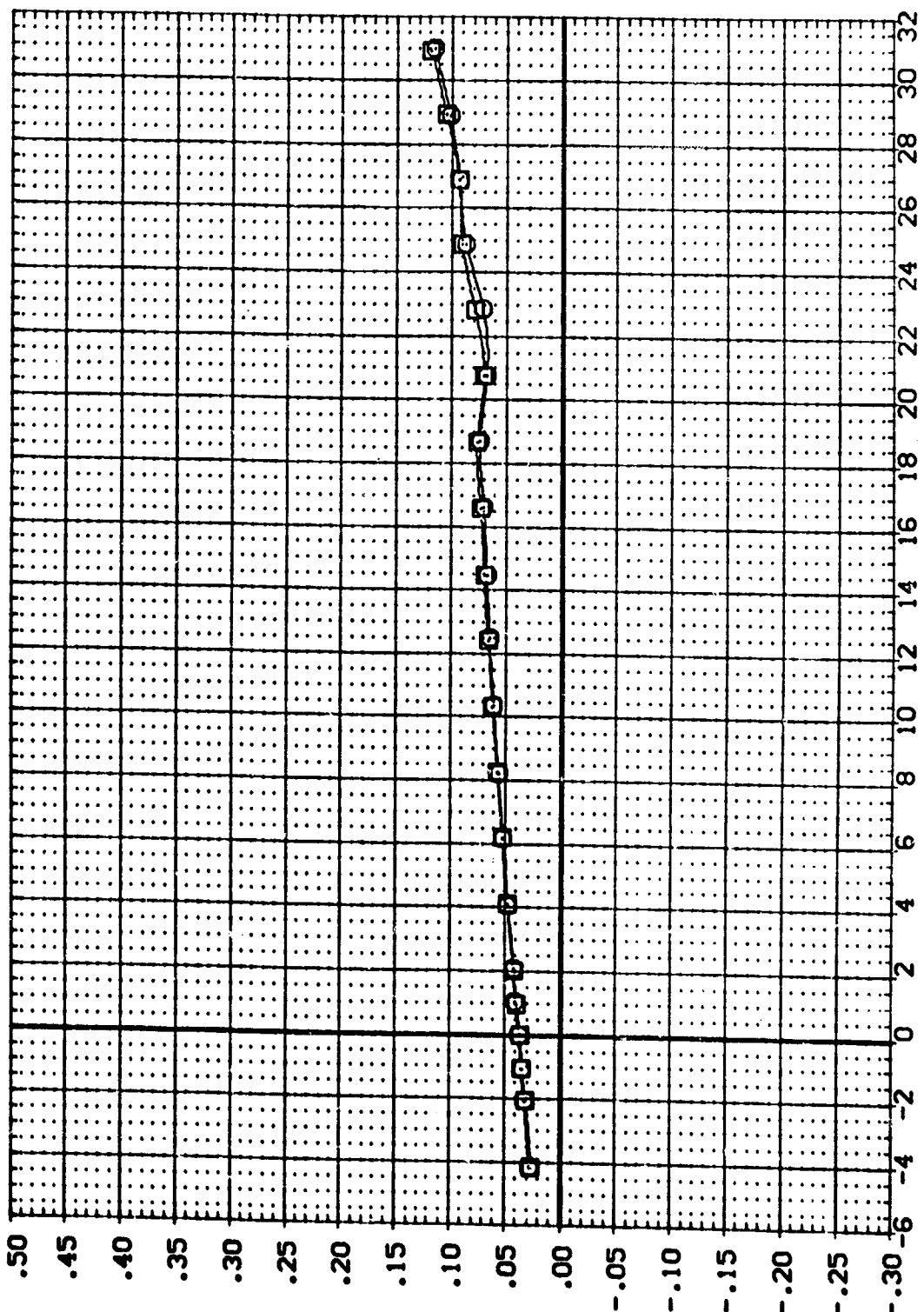


FIG 41 LONG. CHARACT. 3 UNDER CLUSTERS X0= 1100 DATA REPEATABILITY

(A)MACH = .20

DATA SET SYMBOL: 0A62 826C9 F8 V116E26V8R5X9  
 (A04001) 0A62 826C9 F8 V116E26V8R5X9  
 (A00036)

CONFIGURATION DESCRIPTION  
 0A62 826C9 F8 V116E26V8R5X9  
 0A62 826C9 F8 V116E26V8R5X9

ELEVON AIL/ROD BOFLAP SPOBRK  
 .000 .000 .000 .000  
 .000 .000 .000 .000

REFERENCE INFORMATION  
 SREF 4.4119 50.FT  
 LREF 19.2299 INCHES  
 BREF 37.9359 INCHES  
 XMRP 43.5974 INCHES  
 YMRP .0000 INCHES  
 ZMRP 15.1875 INCHES  
 SCALE .0405

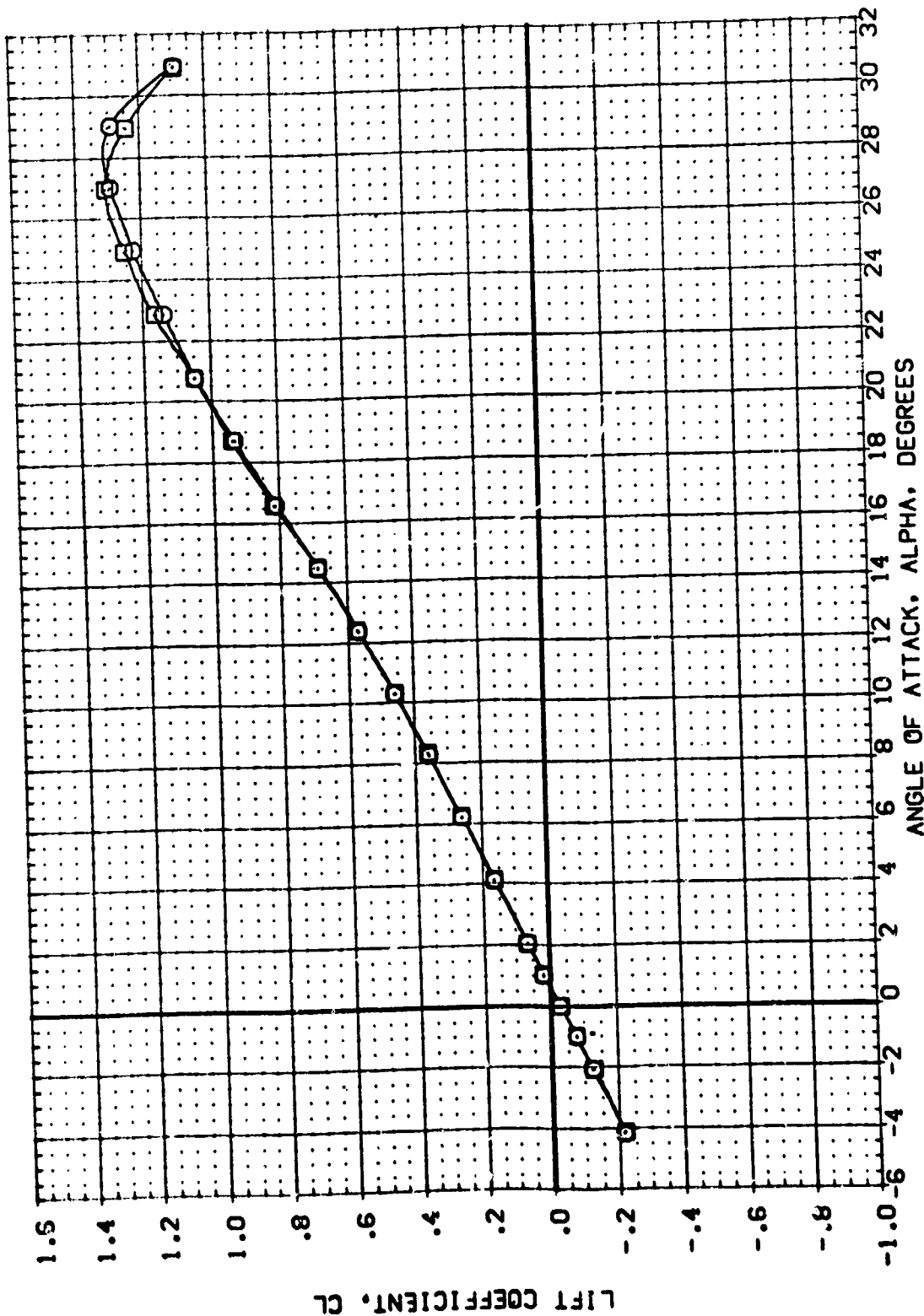


FIG 42 LONG. CHARACT. NO NACELLE OR EXTENSIONS DATA REPEATABILITY

(A)MACH = .20

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		ELEVON		AILERON		BDFLAP		SPDRBK		REFERENCE INFORMATION	
(ADW001)	QAS2	B26C9	F8	VII6E26V8R5X9	.000	.000	.000	.000	-12.000	.000	SREF	4.4119	50. FT.
(ADW036)	QAS2	B26C9	F8	VII6E26V8R5X9	.000	.000	.000	.000	-12.000	.000	LREF	19.2299	INCHES
											BREF	37.9359	INCHES
											XMRP	43.5974	INCHES
											ZMRP	15.1875	INCHES
											SCALE	.0405	INCHES

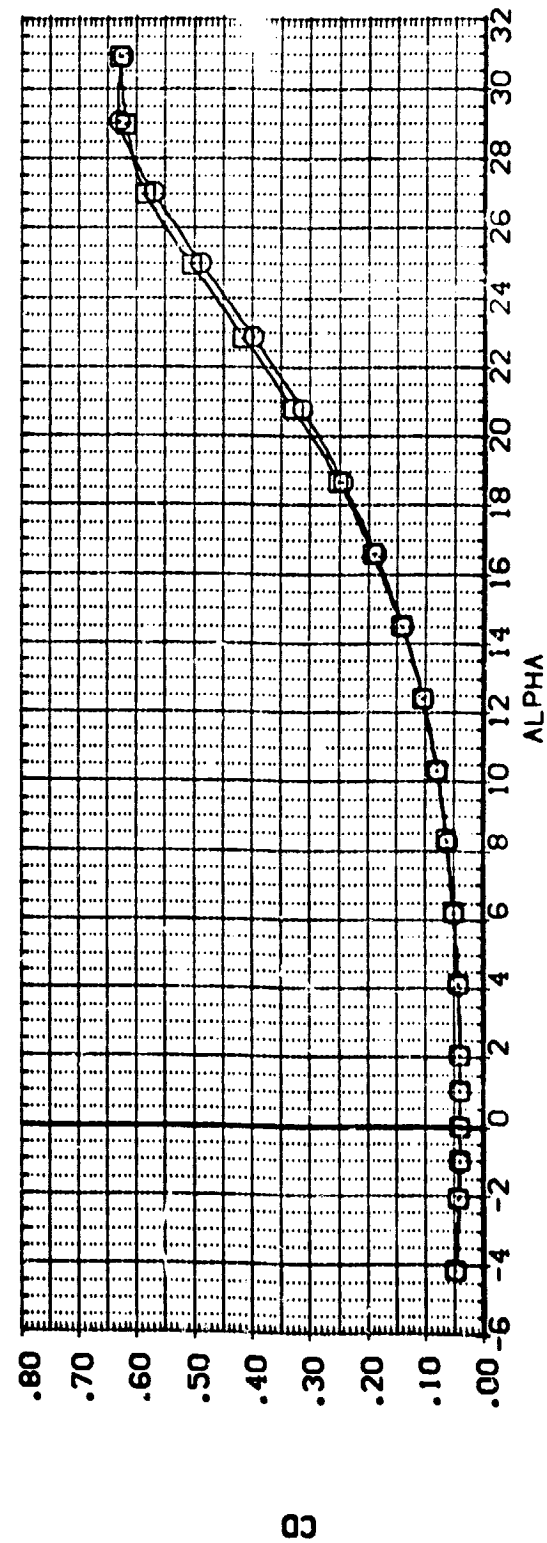
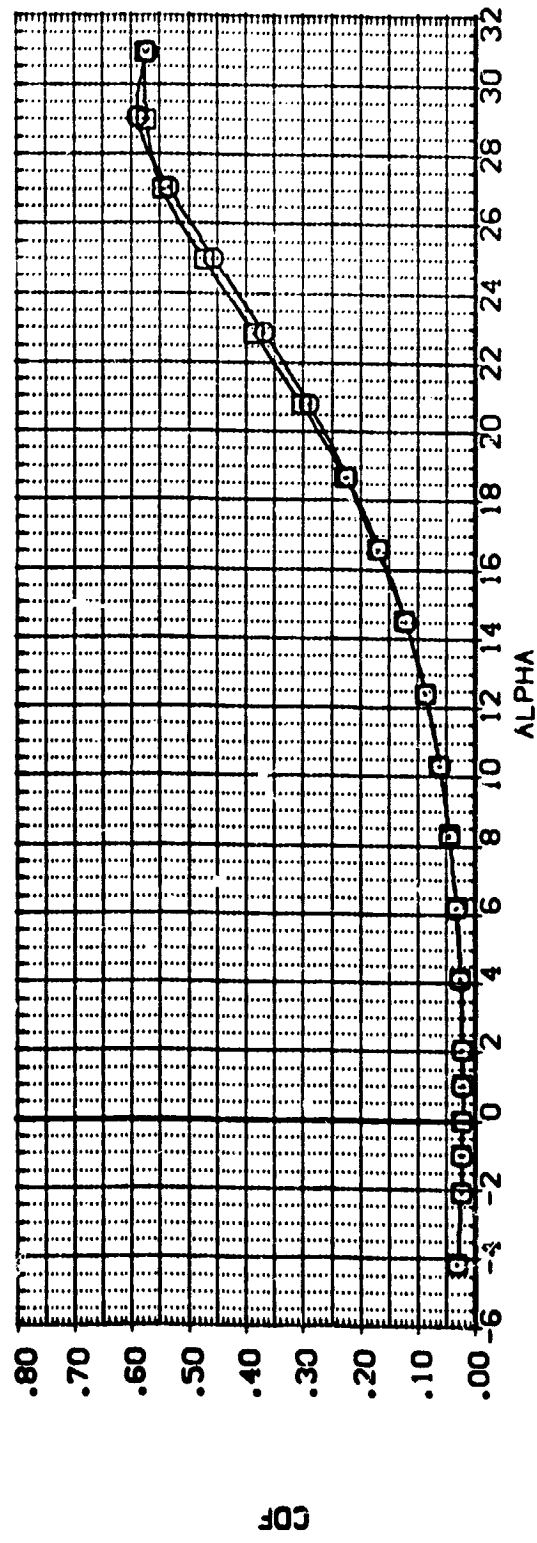


FIG 42 LONG. L-TRACT. NO NACELLE OR EXTENSIONS DATA REPEATABILITY

(ADMACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ELEVON	AILERON	BOFLAP	S-DBRK	REFERENCE INFORMATION
(ADW001)	0A62 826C9 F8 W116Z6V8549	.000	.000	-12.000	.000	SREF 4.4119 SO.FT.
(ADW056)	0A62 826C9 F8 W116Z6V8549	.000	.000	-12.000	.000	LREF 19.2299 INCHES
						BREF 37.9359 INCHES
						XMRP 43.5874 INCHES
						ZMRP .0000 INCHES
						SCALE 15.1875 INCHES
						SCALE .0405

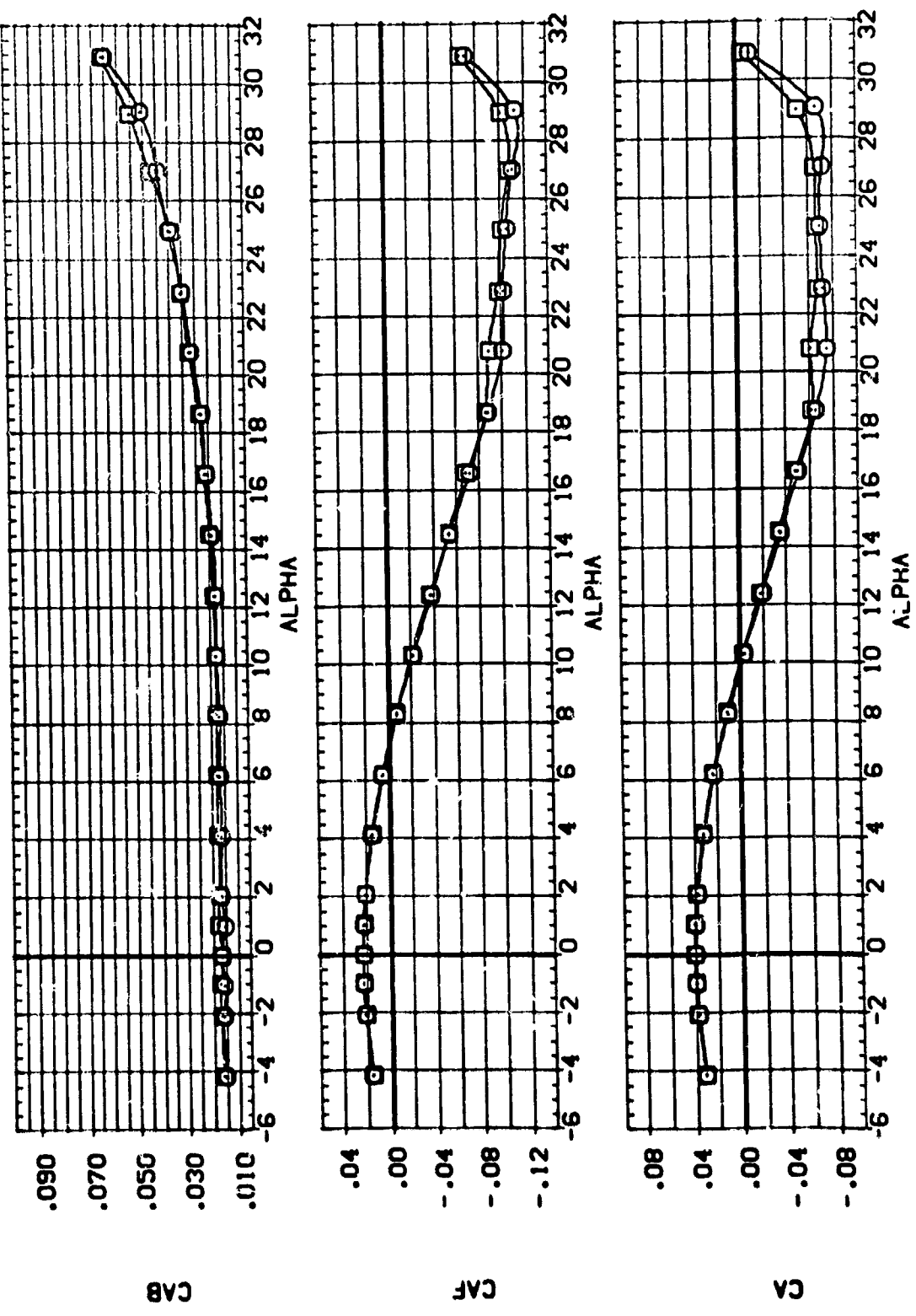


FIG 42 LONG. CHARACT. NO NACELLE OR EXTENSIONS DATA REPEATABILITY

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		ELEVON		AILRON		BDFLAP		SPDRBK		REFERENCE INFORMATION			
(AD-001)	0462	826C9	F8	V116E26V85V3	.000	.000	.000	-12.000	.000	SREF	4.4119	SO.FT.			
(AD-005)	0462	826C9	F8	V116E26V85V3	.000	.000	.000	-12.000	.000	LREF	19.2299	INCHES			
										BREF	37.9359	INCHES			
										X-PRP	43.5974	INCHES			
										Y-PRP	.0000	INCHES			
										Z-PRP	15.1875	INCHES			
										SCALE	.0405	SCALE			

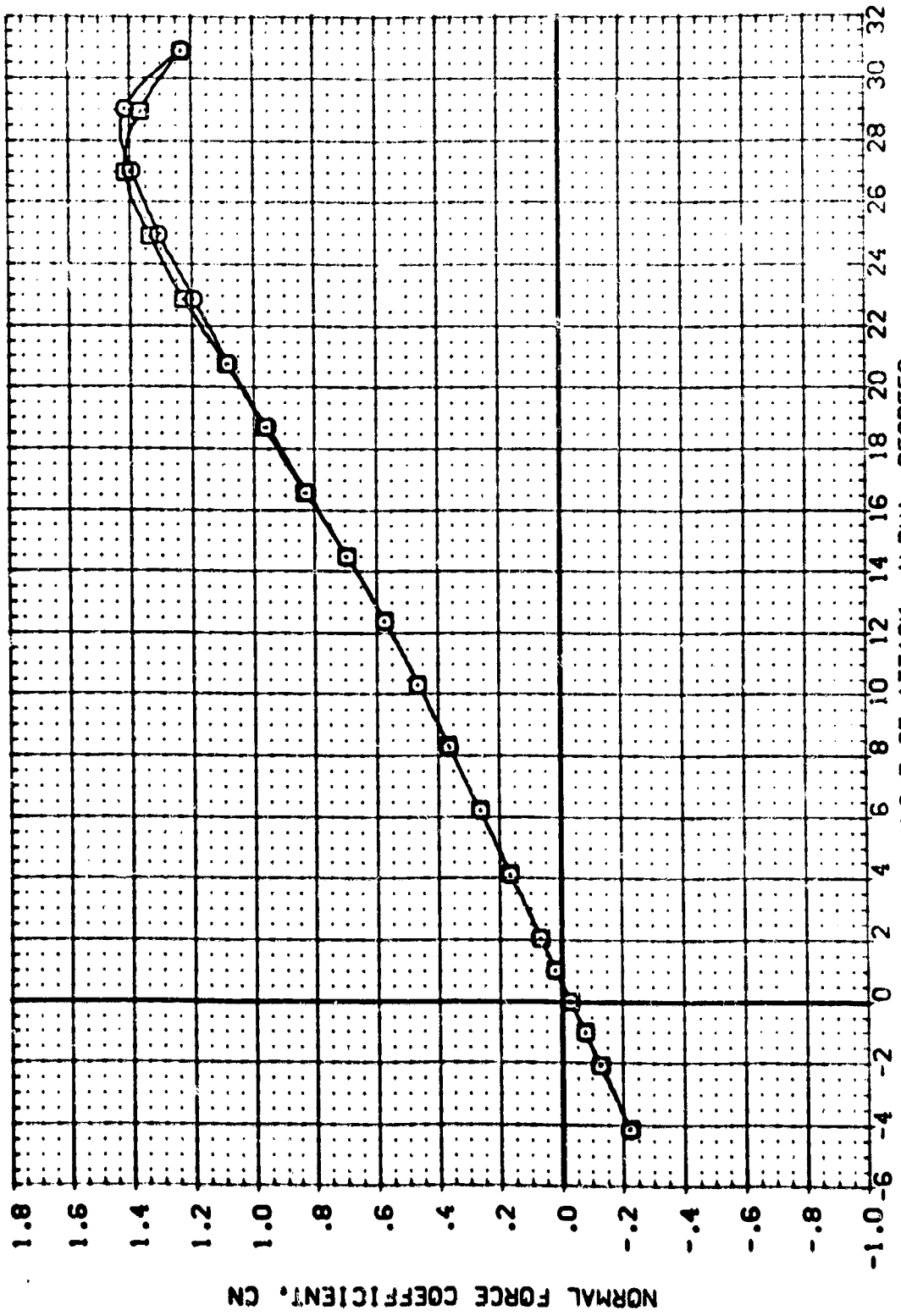


FIG 42 LONG. CHARACT. NO NACELLE OR EXTENSIONS DATA REPEATABILITY

(A)MACH = .20

DATA SET SYMBOL: (ADV001) B (ADV006)

CONFIGURATION DESCRIPTION: 0A52 B26C9 F8 VIIIE26V85K9  
0A52 B26C9 F8 VIIIE26V85K9

ELEVON: .000 .000

AIRCRW: .000 .000

BDFLAP: -12.000 -12.000

SPOBRK: .000 .000

REFERENCE INFORMATION:  
SREF 4.4119 50. FT.  
LREF 19.2299 INCHES  
BREF 37.9369 INCHES  
XREF 43.5974 INCHES  
YREF 15.1000 INCHES  
ZREF 15.1875 INCHES  
SCALE .0405

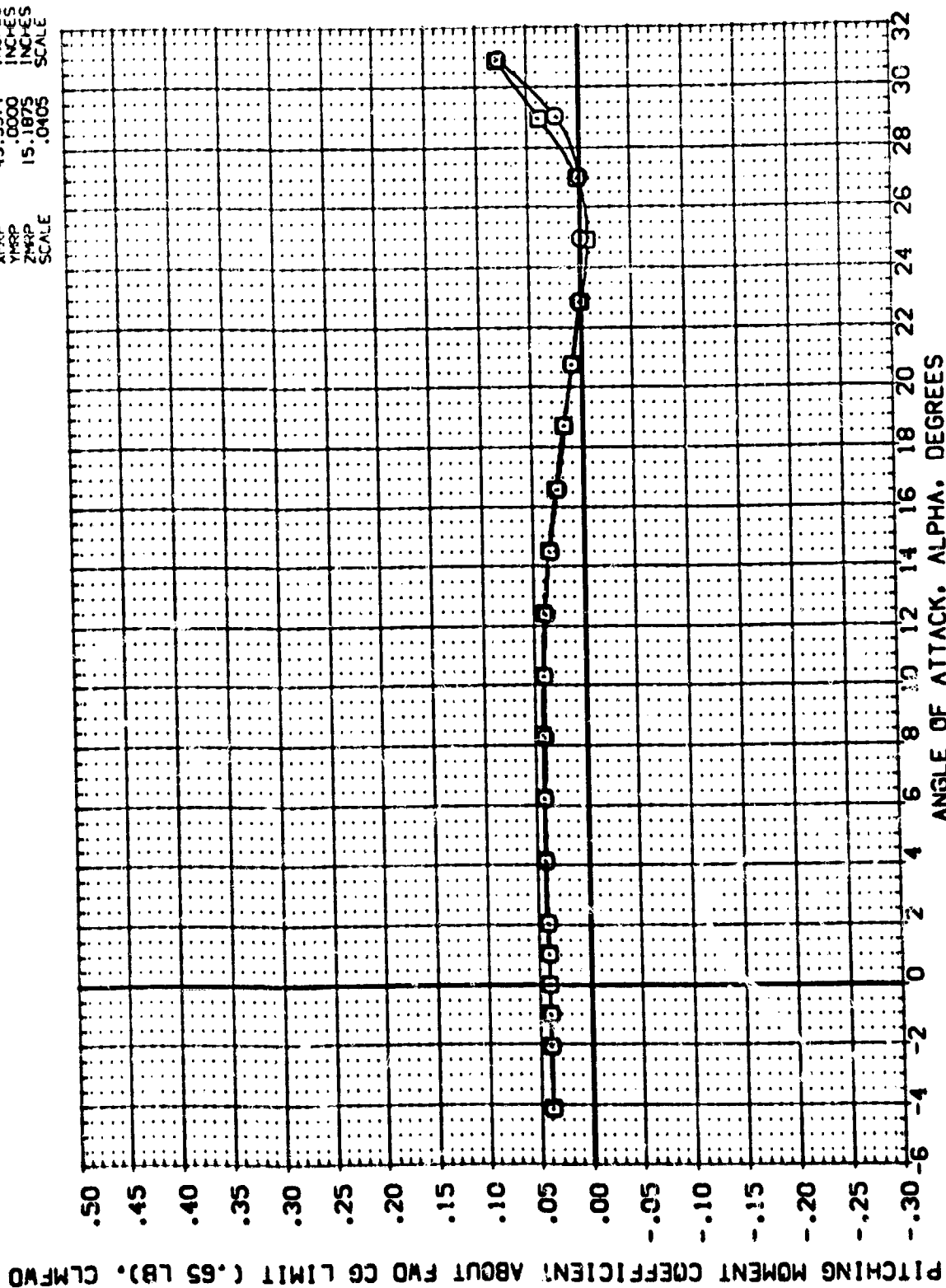


FIG 42 LONG. CHARACT. NO NACELLE OR EXTENSIONS DATA REPEATABILITY

(A)MACH = .20



C-5

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		ELEVON		AILERON		BDFLAP		SPDRBK		REFERENCE INFORMATION	
(ADW001)	□	0A62	B26C9	F8	V116E26V85X9	.000	.000	-12.000	.000	.000	.000	SREF	4.4119
(ADW056)	□	0A62	B26C9	F8	V116E26V85X9	.000	.000	-12.000	.000	.000	.000	LREF	19.2299
												BREF	37.9359
												XMRP	43.5974
												YMRP	.0000
												ZMRP	15.1875
												SCALE	.0405

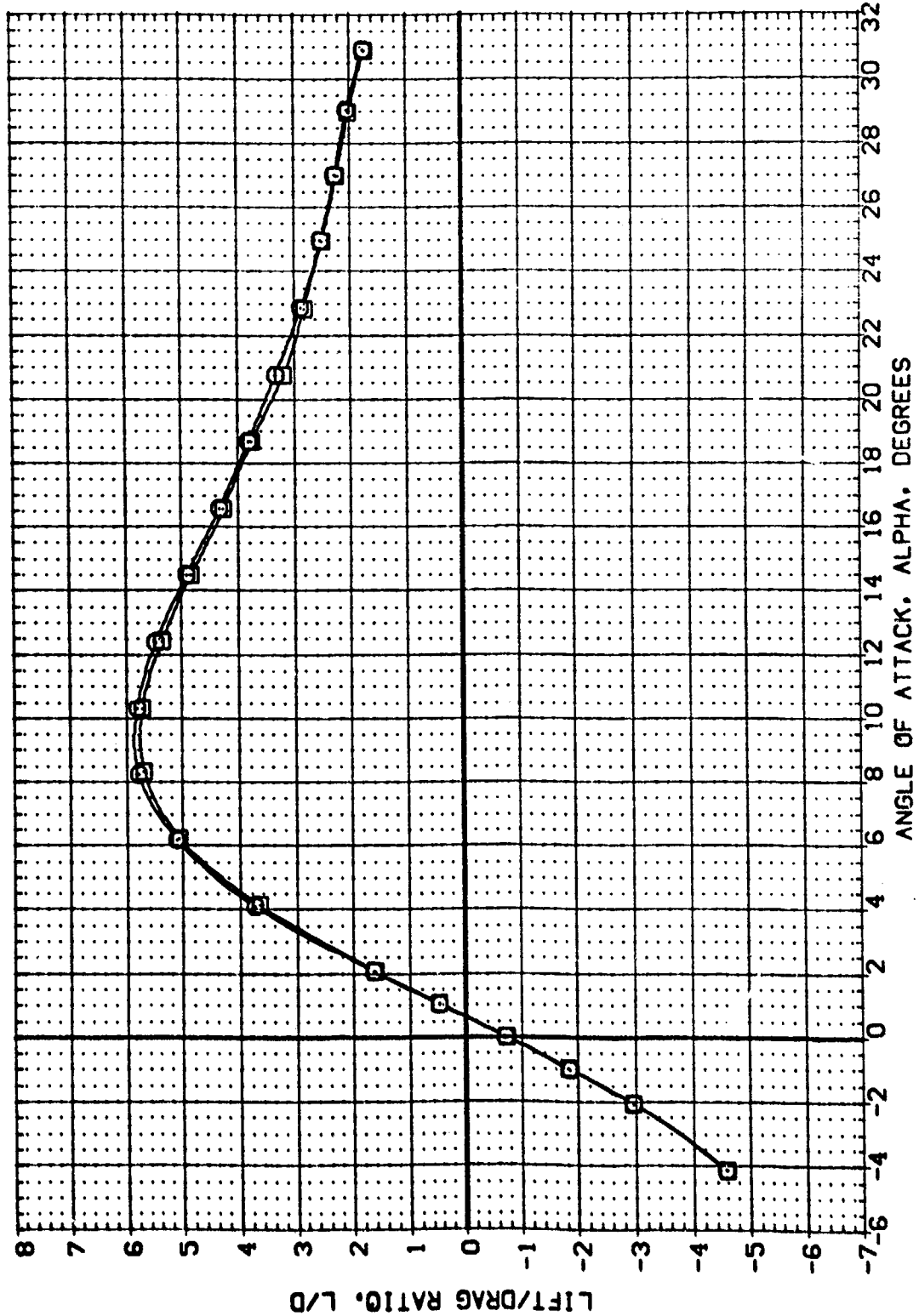


FIG 42 LONG. CHARACT. NO NACELLE OR EXTENSIONS DATA REPEATABILITY

(A)MACH = .20

LONGITUDINAL CENTER OF PRESSURE LOCATION, FRACTION BODY LENGTH XCP/L

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
(ADV001) 0A62 828CS FB V116E26V85SX9  
(ADV006) 0A62 828CS FB V116E26V85SX9

ELEVON AIRLON BOFLAP SPOBRK  
.000 .000 .000  
.000 .000 .000

REFERENCE INFORMATION  
SREF 4.4119 SQ. FT.  
LREF 19.2299 INCHES  
BREF 37.9359 INCHES  
XMRP 43.5974 INCHES  
YMRP 15.0000 INCHES  
ZMRP 15.1875 INCHES  
SCALE .0405

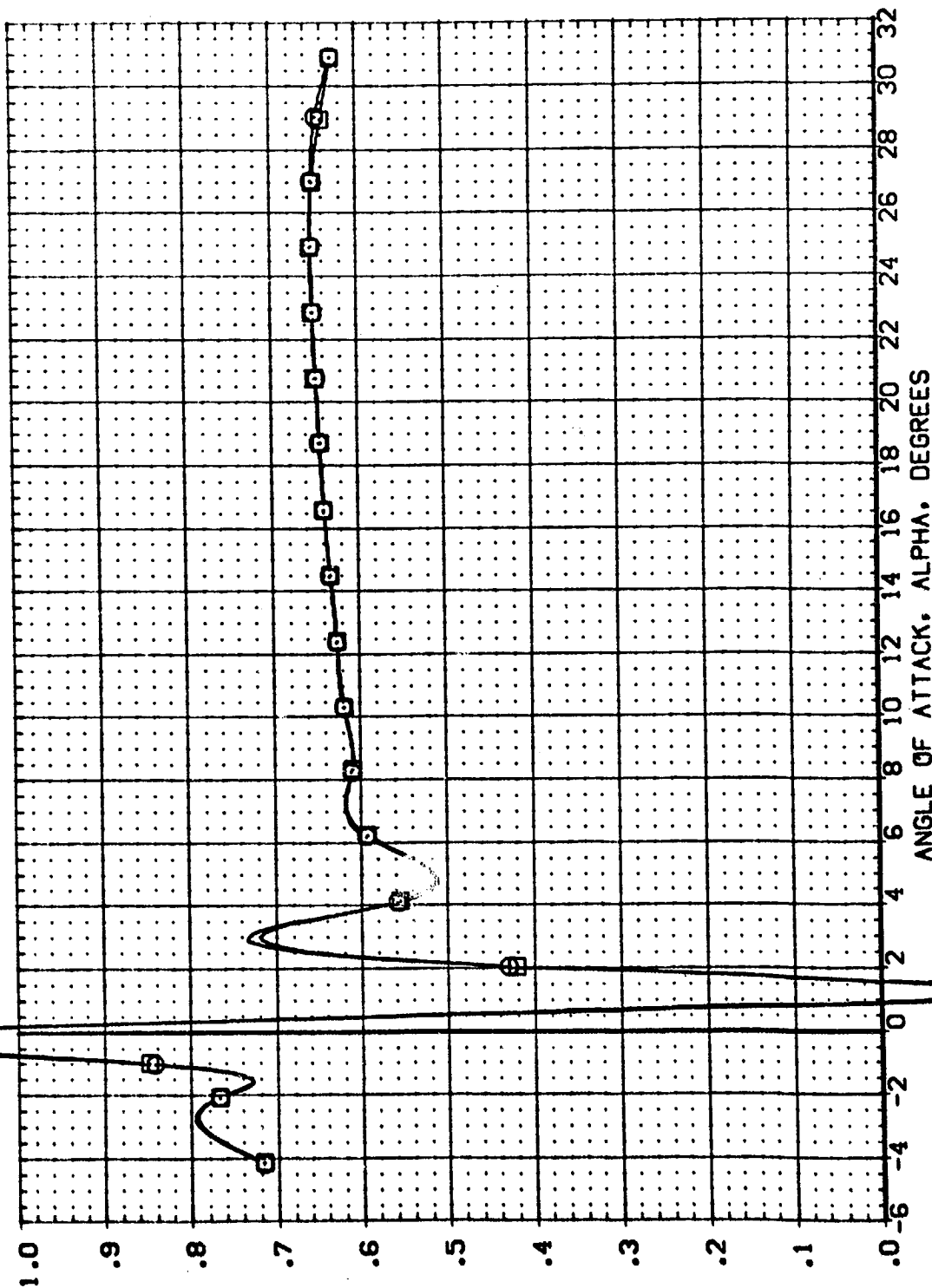


FIG 42 LONG. CHARACTER. NO NACELLE OR EXTENSIONS DATA REPEATABILITY

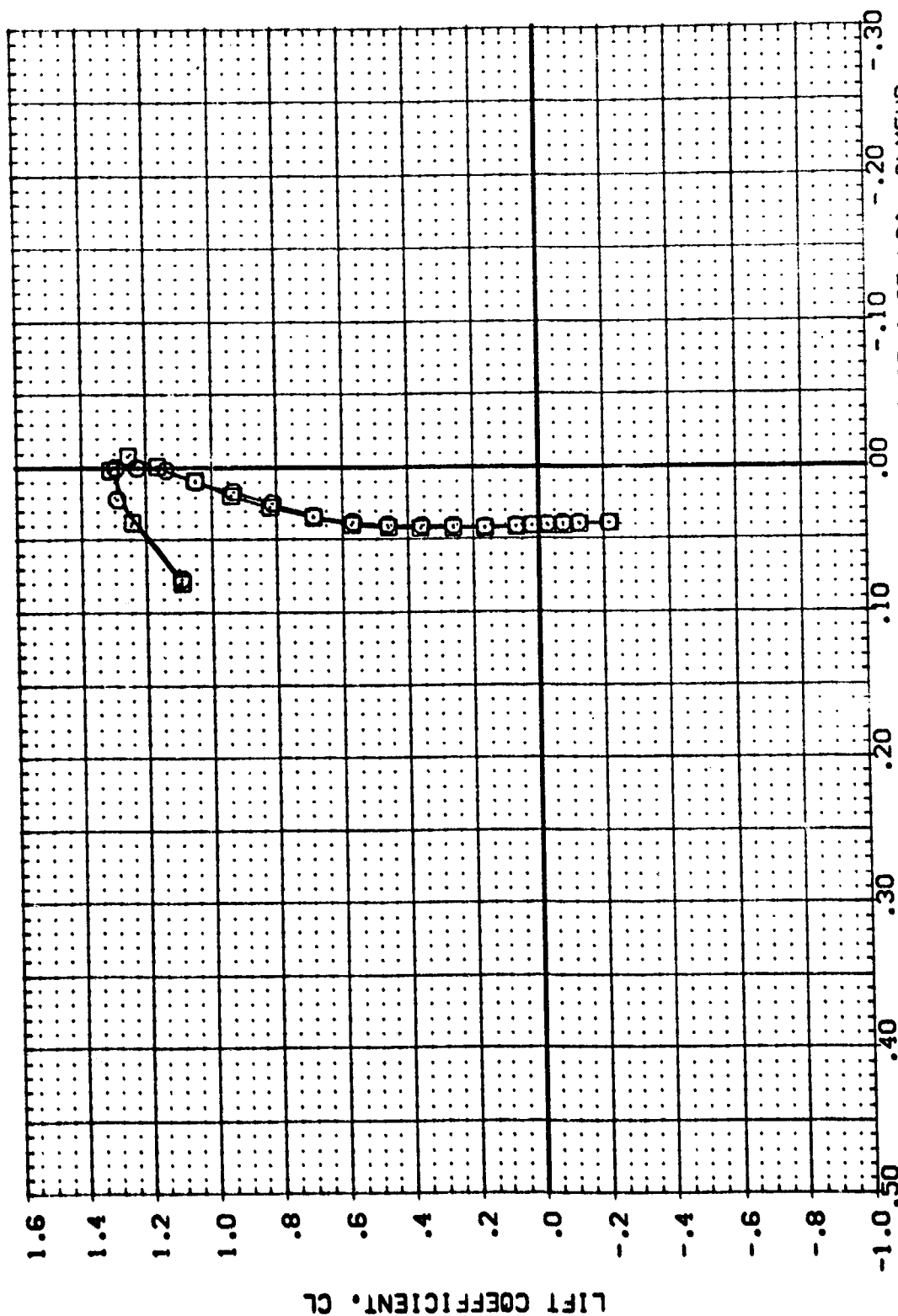
(A)MACH = .20

DATA SET SYMBOL (AD4001) (AD4056)

CONFIGURATION DESCRIPTION  
 0A62 826C9 F8 V116E26V8R5X9  
 0A62 826C9 F8 V116E26V8R5X9

ELEVON .000  
 AIRLON .000  
 BOFLAP -12.000  
 SPDBRK .000

REFERENCE INFORMATION  
 SREF 4.4119 50.FT.  
 LREF 19.2299 INCHES  
 BREF 37.9359 INCHES  
 XMRP 43.5974 INCHES  
 YMRP 15.0000 INCHES  
 ZMRP 15.1875 INCHES  
 SCALE .0405



PITCHING MOMENT COEFFICIENT ABOUT FWD CG LIMIT (.65 LB). CLMFWD

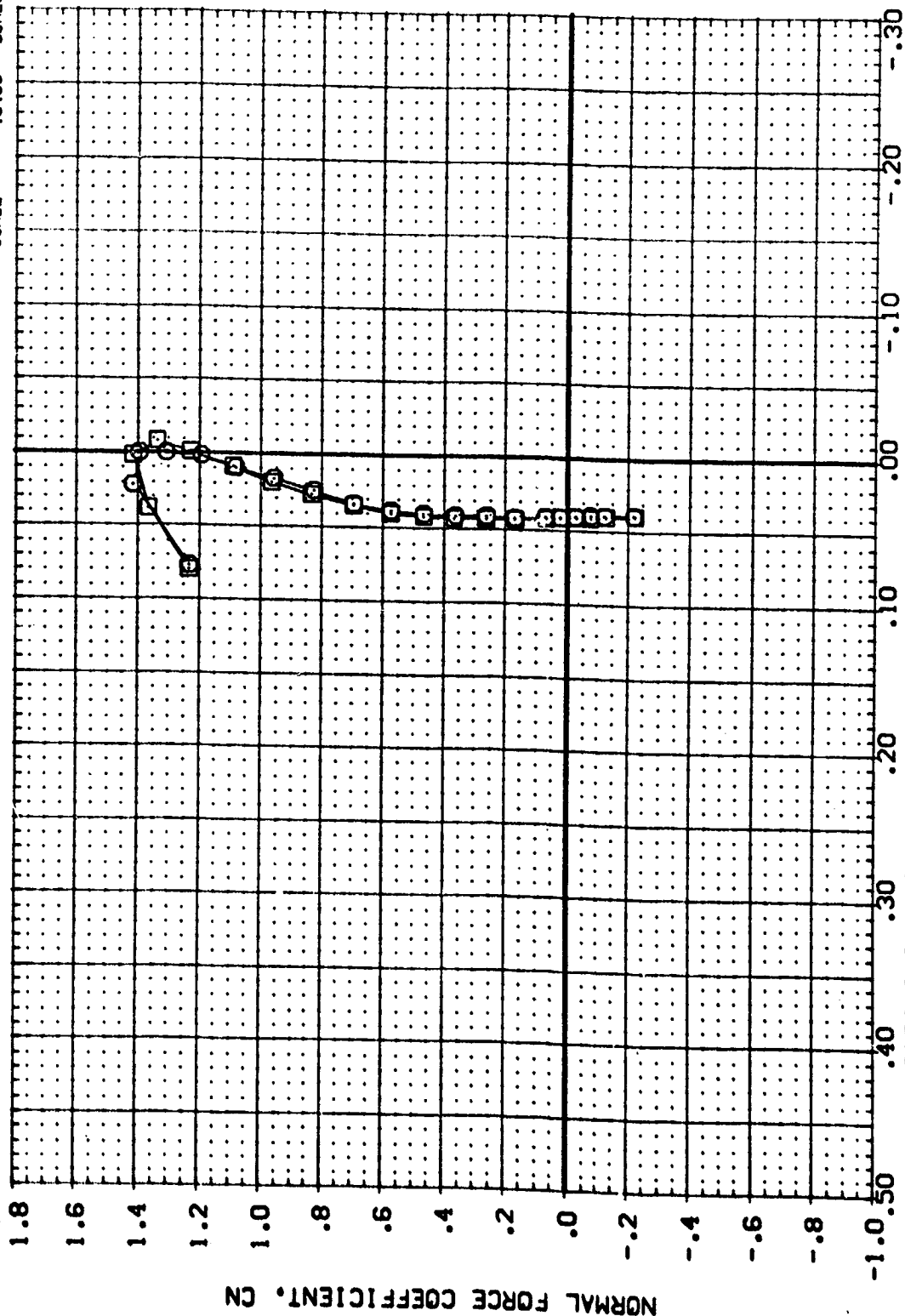
FIG 42 LONG. CHARACT. NO NACELLE OR EXTENSIONS DATA REPEATABILITY

(A)MACH = .20

DATA SET SYMBOL CONFIGURATION DESCRIPTION  
 (ADV001) 0A62 826C9 F8 V11E26V8K5X9  
 (ADV056) 0A62 826C9 F8 V11E26V8K5X9

ELEVON AIRLON BOFLAP SPOBRK  
 .000 .000 -12.000 .000  
 .000 .000 -12.000 .000

REFERENCE INFORMATION  
 SREF 4.4119 SQ.FT.  
 LREF 19.2299 INCHES  
 BREF 37.9359 INCHES  
 XMRP 43.5974 INCHES  
 YMRP .0000 INCHES  
 ZMRP 15.1875 INCHES  
 SCALE .0405



PITCHING MOMENT COEFFICIENT ABOUT FWD CG LIMIT (.65 LB), CLMFW

FIG 42 LONG. CHARACT. NO NACELLE OR EXTENSIONS DATA REPEATABILITY

(A)MACH = .20

DATA SET SYMBOL		CONFIGURATION DESCRIPTION		ELEVON		AILRON		BOFLAP		SPDRBK		REFERENCE INFORMATION			
(ADW001)	QAG2	B26C9	F8	V116E26V8R5X9	.000	.000	.000	-12.000	.000	.000	SREF	4.4119	50.FT.		
(ADW056)	QAG2	B26C9	F8	V116E26V8R5X9	.000	.000	.000	-12.000	.000	.000	LREF	19.2299	INCHES		
											BREF	37.9359	INCHES		
											XMRP	43.5974	INCHES		
											ZMRP	15.1875	INCHES		
											SCALE	.0405	SCALE		

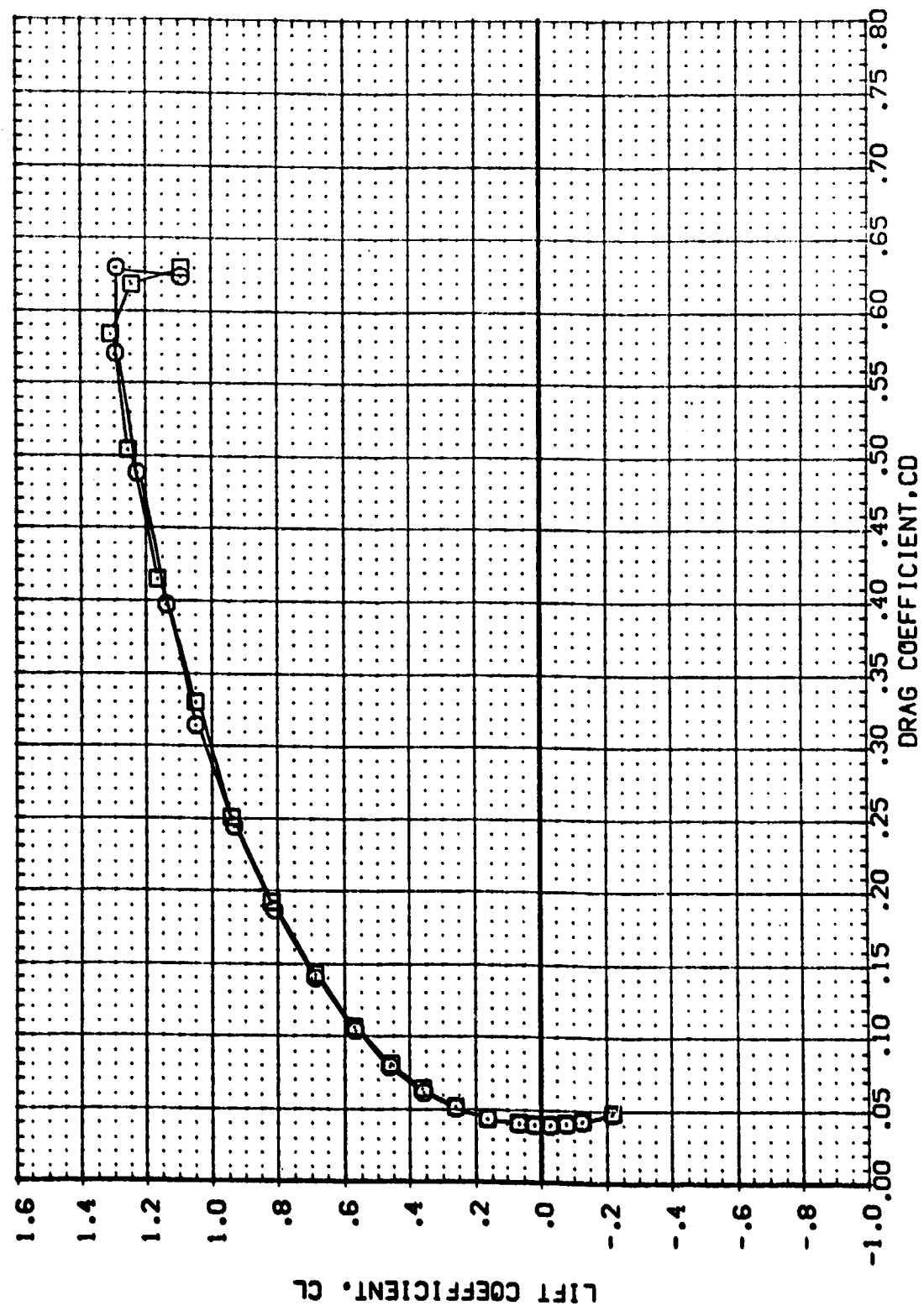


FIG 42 LONG. CHARACT. NO NACELLE OR EXTENSIONS DATA REPEATABILITY

(A)MACH = .20

PITCHING MOMENT COEFFICIENT ABOUT AFT CG LIMIT (.675 LB). CLMAFT

DATA SET SYMBOL. CONFIGURATION DESCRIPTION  
 (CDV001) 0A62 B26C9 FB V116E26V8R5X9  
 (CDV056) 0A62 B26C9 FB V116E26V8R5X9

ELEVON AIRLON BOFLAP SPOBRK REFERENCE INFORMATION  
 SREF 4.4119 SO.FT.  
 LREF 19.2299 INCHES  
 BREF 37.9359 INCHES  
 XMRP 44.3813 INCHES  
 YMRP .0000 INCHES  
 ZMRP 15.1875 INCHES  
 SCALE .0405

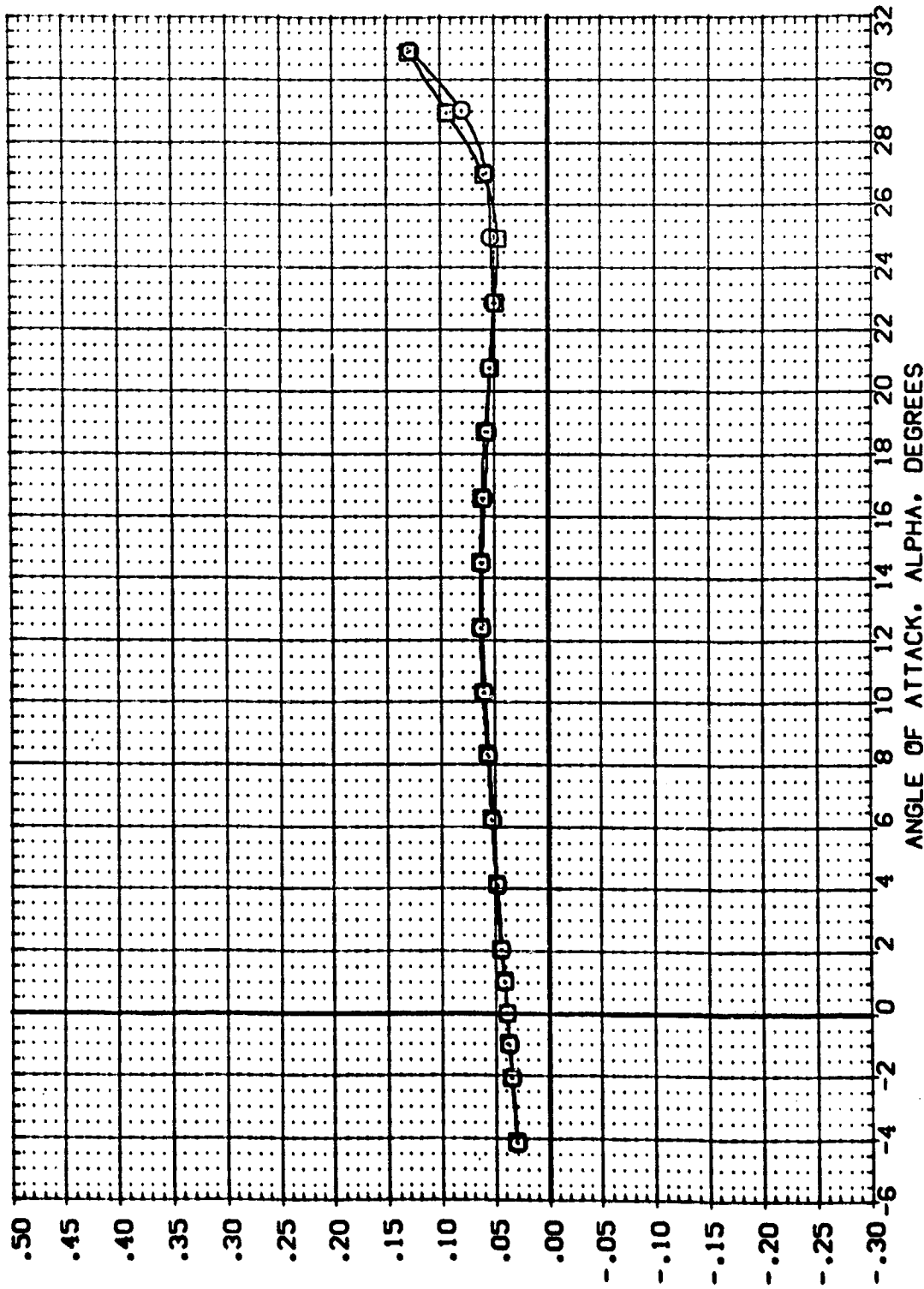


FIG 42 LONG. CHARACT. NO NACELLE OR EXTENSIONS DATA REPEATABILITY  
 (A)MACH = .20



DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	SPDRK	RUDDER	AILERON	REFERENCE INFORMATION
(RDV097)	DAG2 B26C9 F8 V116E26V8R5X9	.000	.000	.000	.000	SREF 4.4119 SO.FT. INCHES
(RDV098)	DAG2 B26C9 F8 V116E26V8R5X9	10.000	.000	.000	.000	LREF 19.2298 INCHES
(RDV002)	DAG2 B26C9 F8 V116E26V8R5X9	.000	.000	.000	.000	BREF 37.9559 INCHES
(RDV004)	DAG2 B26C9 F8 V116E26V8R5X9	10.000	.000	.000	.000	XMRP 43.5574 INCHES
						YMRP .0000 INCHES
						ZMRP 15.1875 INCHES
						SCALE .0405

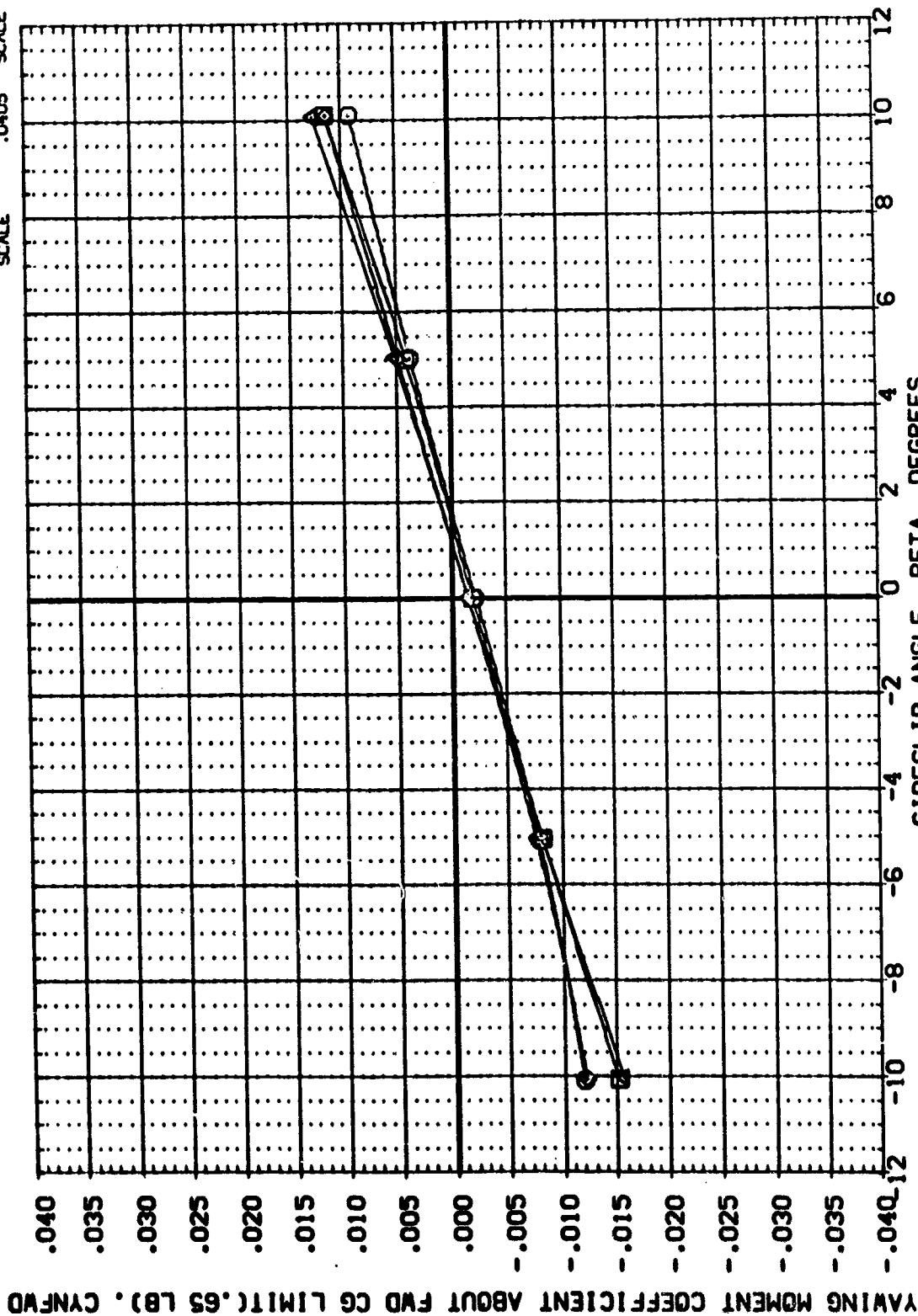


FIG 43 LAT. / DIR. CHARACTERISTICS NO NACELLE OR EXTENSIONS

(A)MACH = .20

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	ALPHA	SPOBRK	RUDDER	AILRON	REFERENCE INFORMATION
(RDV097)	0A62 B26C9 F8 V116E26V8R5X9	.000	.000	.000	.000	SREF 4.4119 SQ.FT.
(RDV098)	0A62 B26C9 F8 V116E26V8R5X9	10.000	.000	.000	.000	LREF 19.2289 INCHES
(RDV002)	0A62 B26C9 F8 V116E26V8R5X9	.000	.000	.000	.000	BREF 37.9359 INCHES
(RDV004)	0A62 B26C9 F8 V116E26V8R5X9	10.000	.000	.000	.000	XMRP 43.5574 INCHES
						YMRP .0000 INCHES
						ZMRP 15.1875 INCHES
						SCALE .0405

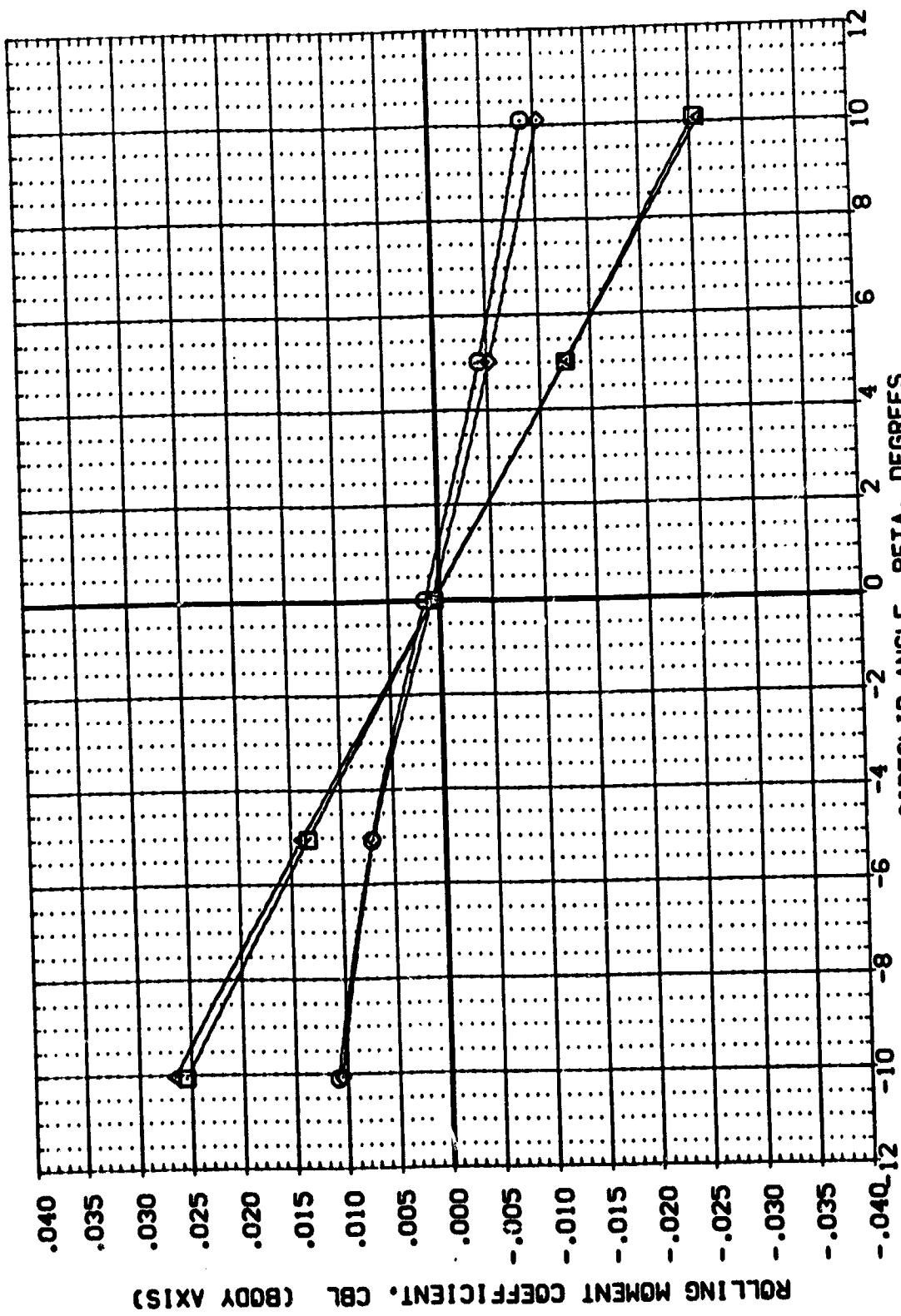


FIG 43 LAT. / DIR. CHARACTERISTICS NO NACELLE OR EXTENSIONS  
(A)MACH = .20



DATA SET SYMBOL		CONFIGURATION DESCRIPTION	ALPHA	SPOBRK	RUDDER	AIRLON	REFERENCE INFORMATION
(RDV037)	QAG2	B26C9	F8	V116E26V85X3	.000	.000	SREF 4.4119 SO.FT.
(RDV038)	QAG2	B26C9	F8	V116E26V85X3	.000	.000	UREF 19.2299 INCHES
(RDV032)	QAG2	B26C9	F8	V116E26V85X3	.000	.000	BREF 37.9359 INCHES
(RDV004)	QAG2	B26C9	F8	V116E26V85X3	.000	.000	YHREF 43.5374 INCHES
					.000	.000	ZHREF 15.1875 INCHES
							SCALE .0405

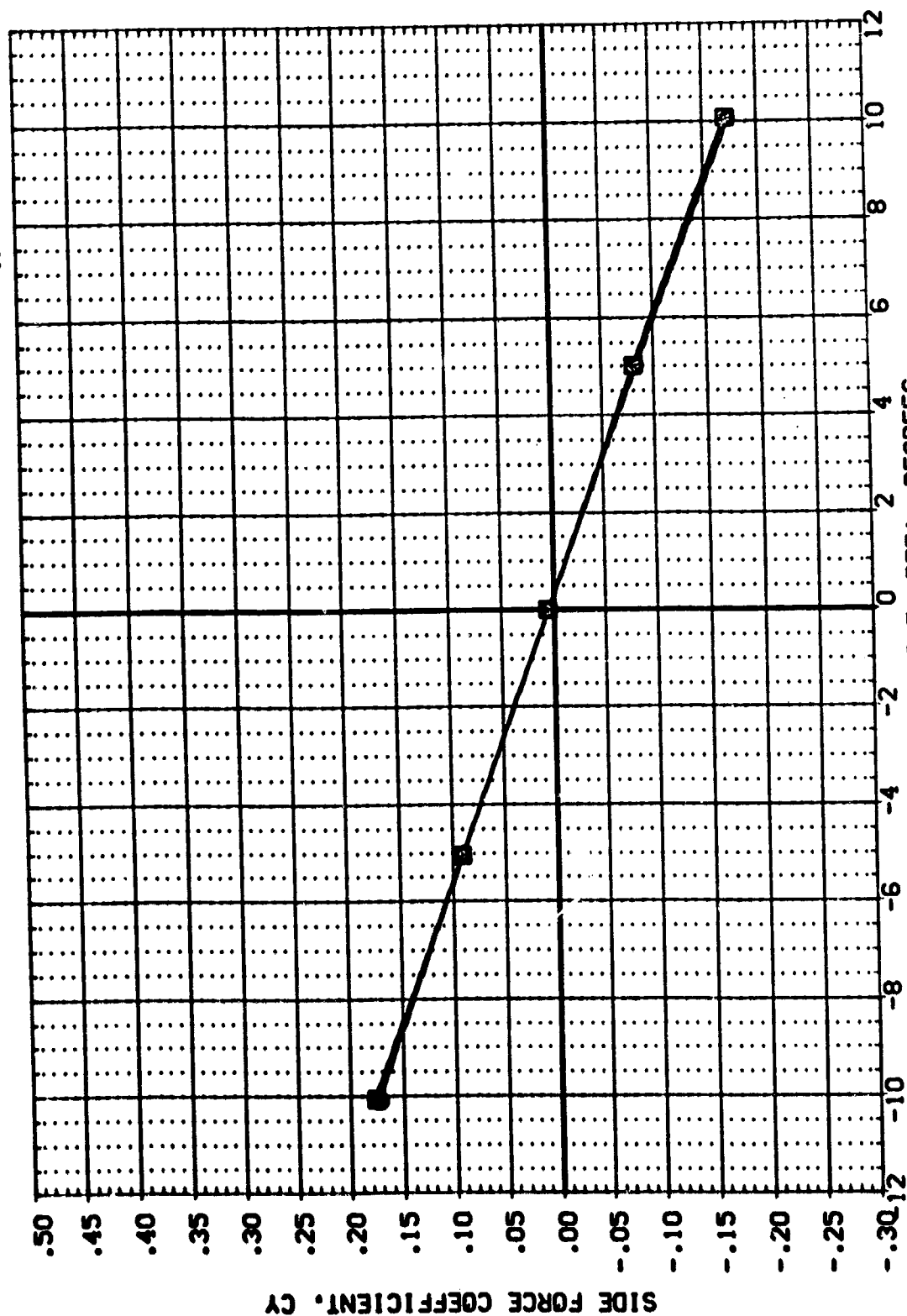


FIG 43 LAT. / DIR. CHARACTERISTICS NO NACELLE OR EXTENSIONS

(A)MACH = .20

YAWING MOMENT COEFFICIENT DERIVATIVE WITH BETA, CYNBET, PER DEGREE

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NACEL	ELEVON	BD/LAP	SP/DBK	REFERENCE INFORMATION
(EDV097)	0A52 826C9 F8 V116E26V85X9		.000	-12.000	.000	SREF 4.4119 50.FT.
(EDV0C2)	0A52 826C9 F8 V116E26V85X9		.000	-12.000	.000	LREF 19.2299 INC-ES
						SREF 37.9359 INC-ES
						XTRP 43.5974 INC-ES
						YTRP .0000 INC-ES
						ZTRP 15.1875 INC-ES
						SCALE .0405 SCALE

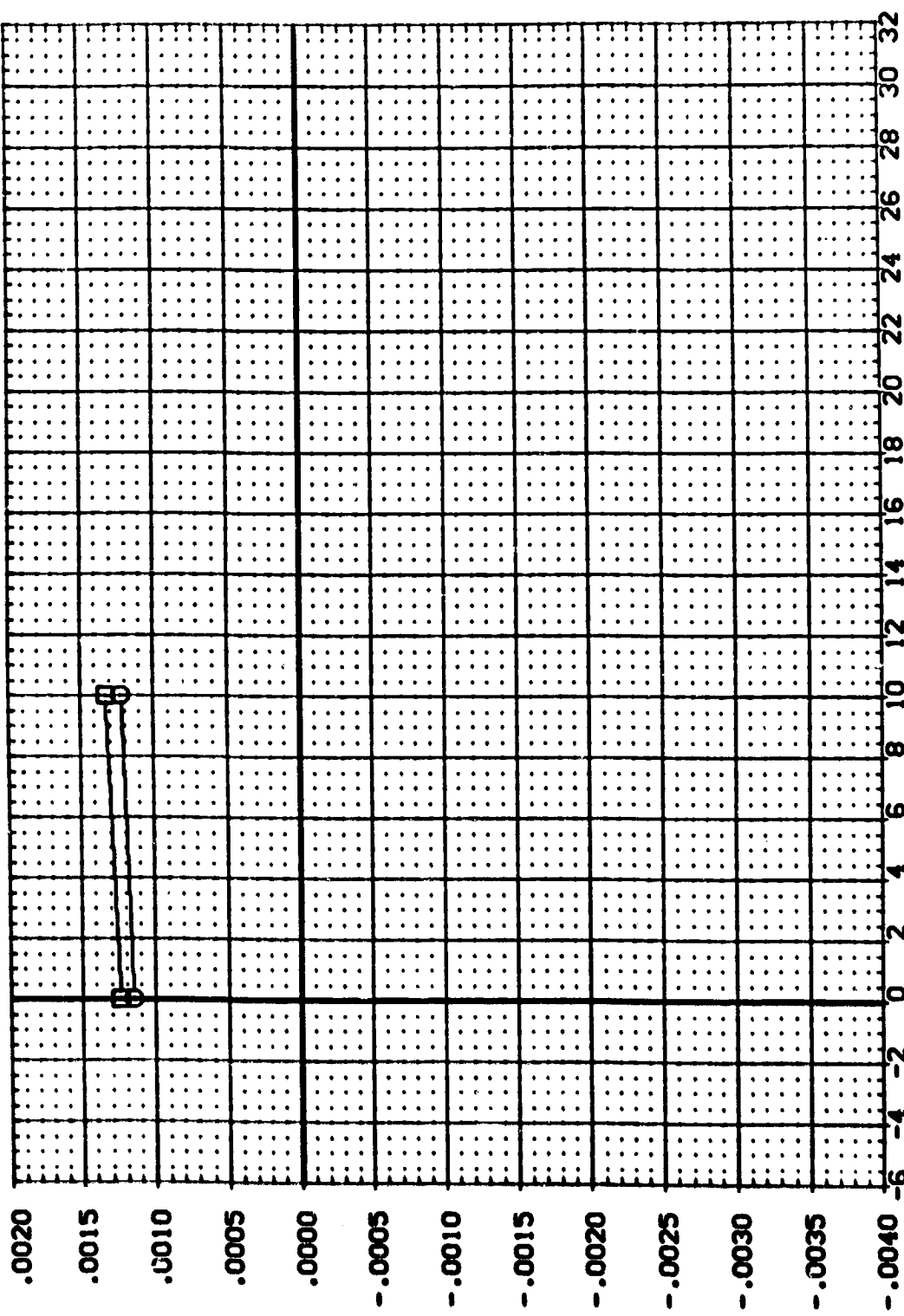


FIG 43 LAT. / DIR. CHARACTERISTICS NO NACELLE OR EXTENSIONS

REFERENCE INFORMATION	
SREF	4.4119 SO.FT.
LREF	19.2299 INCHES
BREF	37.9359 INCHES
XRRP	43.5574 INCHES
YRRP	.0000 INCHES
ZRRP	15.1875 INCHES
SCALE	.0405 SCALE

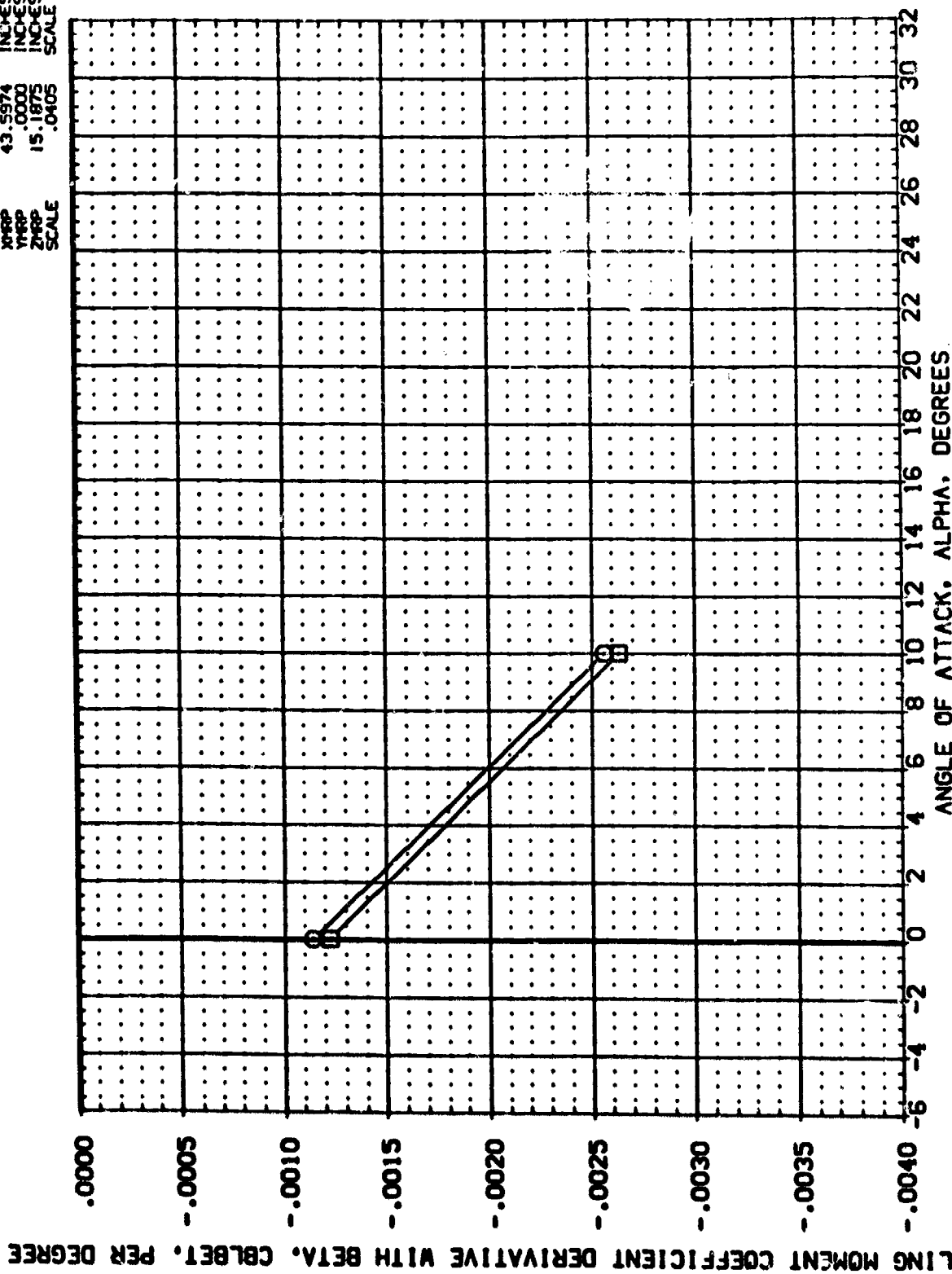


FIG 43 LAT. / DIR. CHARACTERISTICS NO NACELLE OR EXTENSIONS

DATA SET SYMBOL	CONFIGURATION DESCRIPTION	NACCEL	ELEVON	BOFLAP	SPOBRK	REFERENCE INFORMATION
(EDV037)	0A52 B26C9 F8 VI16E26V83X9	.000	.000	-12.000	.000	SREF 4.4119 SO.FT.
(EDV002)	0A62 B26C9 F8 VI16E26V845X9	.000	.000	-12.000	.000	LREF 19.2298 INCHES
						BREF 37.9359 INCHES
						VMRP 43.5974 INCHES
						VMRP .0000 INCHES
						ZMRP 15.1875 INCHES
						SCALE .0405

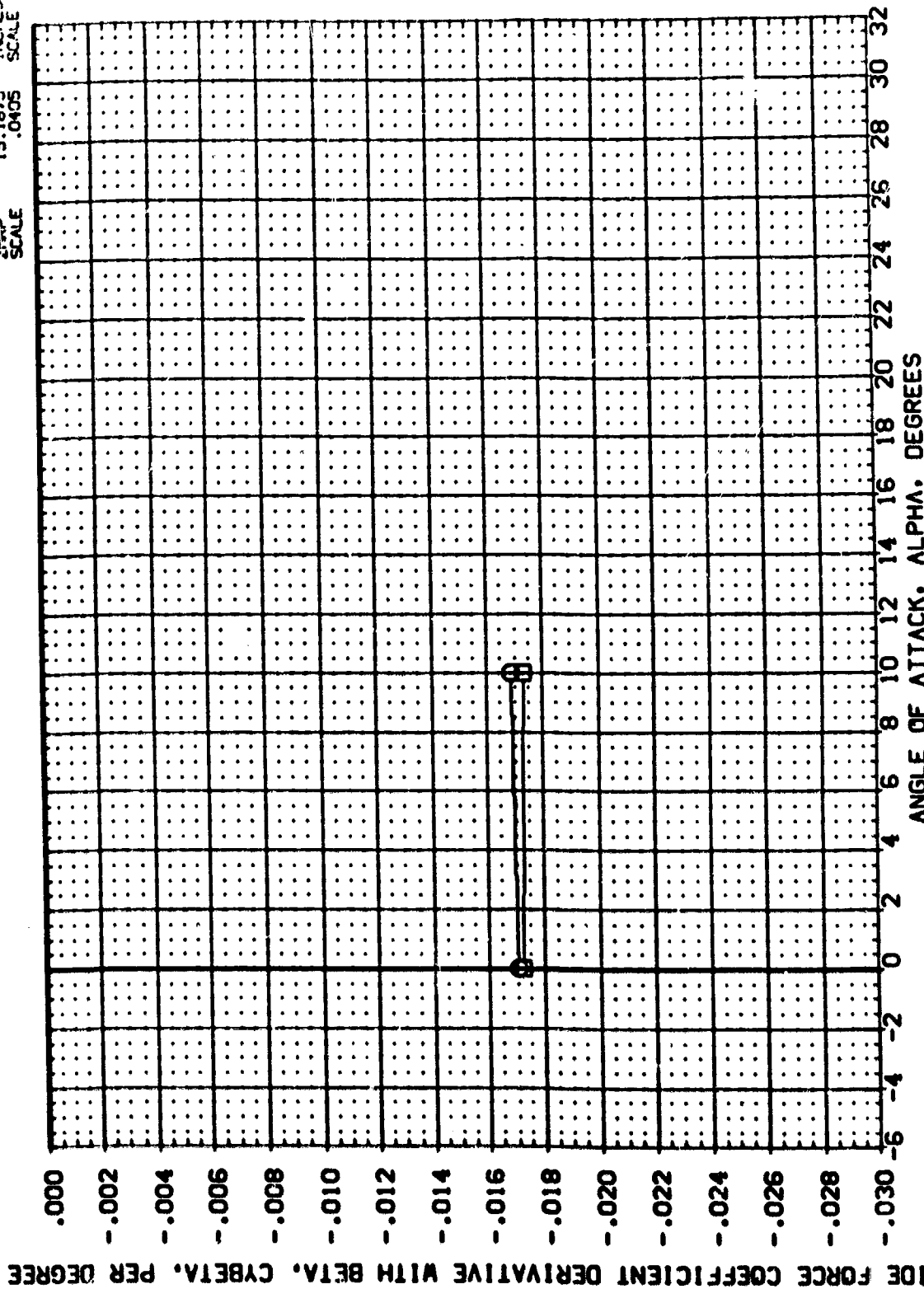


FIG 43 LAT. / DIR. CHARACTERISTICS NO NACELLE OR EXTENSIONS

APPENDIX  
TABULATED SOURCE DATA

Tabulations of plotted data are available on request from  
Data Management Services.

DATE 30 APR 74

TABULATED SOURCE DATA - QAT2

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QAG2 B26C9 F8 W116E26V8R5X9

(RDW001) ( 09 NOV 73 )

## REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES  
 LREF = 19.2299 INCHES YMRP = .0000 INCHES  
 BREF = 37.9359 INCHES ZMRP = 15.1875 INCHES  
 SCALE = .0405 SCALE

BETA = .000 BDFLAP = -12.000  
 ELEVON = .000 A'LRON = .000  
 RUDDER = .000 SPOBRK = .000

## PARAMETRIC DATA

RUN NO. 1/ 0 RN/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	ALPHA	CL	CD	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-4.160	-.21780	.03220	.03690	-.21960	.01639	-.00180	.00120	.00400	.07170	.01554
.200	-2.080	-.12390	.02600	.03920	-.12470	.02131	-.00170	.00080	.00400	.07670	.01607
.200	-1.040	-.07540	.02480	.03940	-.07590	.02347	-.00170	.00100	.00300	.08430	.01567
.200	.000	-.02830	.02300	.04010	-.02830	.02307	-.00170	.00070	.00400	.11730	.01673
.200	1.010	.01060	.02370	.04040	.01900	.02346	-.00160	.00070	.00300	-.01260	.01566
.200	2.060	.06660	.02350	.04060	.06740	.02109	-.00160	.00070	.00400	.04300	.01678
.200	3.090	.16240	.02700	.04130	.16390	.01537	-.00150	.00070	.00200	.05590	.01636
.200	6.180	.26020	.03400	.04090	.26240	.00582	-.00150	.00070	.00200	.05940	.01694
.200	8.240	.35840	.04530	.04070	.36120	-.00654	-.00150	.00060	.00300	.06100	.01670
.200	10.330	.46140	.06160	.04020	.46800	-.02207	-.00150	.00060	.00200	.06200	.01805
.200	12.390	.56910	.08650	.03820	.57440	-.03761	-.00110	.00010	.00100	.06270	.01782
.200	14.490	.68760	.12160	.03330	.69610	-.05433	-.00050	-.00050	.00000	.06340	.01883
.200	16.590	.81190	.16710	.02510	.82590	-.07169	-.00060	.00010	.00000	.06400	.02107
.200	18.690	.93330	.22300	.01700	.95560	-.08796	-.00010	.00150	-.00300	.06450	.02248
.200	20.780	1.04830	.28990	.00990	1.08300	-.10097	.00260	.00190	-.00700	.06480	.02645
.200	22.860	1.13950	.36980	.00190	1.19370	-.10199	.00510	.00290	-.01100	.06510	.02993
.200	24.980	1.22880	.45670	-.00010	1.30670	-.10497	.00390	.00580	-.01500	.06520	.03536
.200	27.020	1.29330	.53540	-.00010	1.39530	-.11054	.00230	.00610	-.01100	.06520	.03924
.200	29.050	1.29280	.58960	.02250	1.41650	-.11233	.00270	.00130	-.00700	.06460	.04565
.200	30.930	1.09380	.57210	.07730	1.23230	-.07150	.00320	-.00100	-.00600	.06290	.05996
GRADIENT	.04656	-.00063	-.00063	.00031	.04646	-.00011	.00003	-.00006	-.00018	-.00522	.00011

QAG2 B26C9 F8 W116E26V8R5X9

(RDW002) ( 09 NOV 73 )

## REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES  
 LREF = 19.2299 INCHES YMRP = .0000 INCHES  
 BREF = 37.9359 INCHES ZMRP = 15.1875 INCHES  
 SCALE = .0405 SCALE

ALPHA = .000 BDFLAP = -12.000  
 ELEVON = .000 A'LRON = .000  
 RUDDER = .000 SPOBRK = .000

## PARAMETRIC DATA

RUN NO. 2/ 0 RN/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CD	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-10.070	-.01230	.01230	.02880	-.01230	.01230	-.01220	.01050	.17670	.15110	.01859
.200	-5.030	-.02150	.02030	.03460	-.02150	.02033	-.00760	.00700	.09100	.12430	.01975
.200	.000	-.02830	.02460	.03970	-.02830	.02468	-.00150	.00070	.00500	.11680	.01517
.200	5.040	-.02200	.01840	.03510	-.02200	.01839	.00490	-.00530	-.08300	.12380	.01743
.200	10.090	-.01150	.00910	.02720	-.01150	.00917	.01140	-.01540	-.17400	.15220	.01977
GRADIENT	-.00005	-.00005	-.00019	.00005	-.00005	-.00019	.00124	-.00122	-.01724	-.00005	.00017

Q162 B26C9 F8 W116E26V8R5X9

(RDW003) ( 09 NOV 73 )

## REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES  
 LREF = 19.2299 INCHES YMRP = .0000 INCHES  
 BREF = 37.9359 INCHES ZMRP = 15.1875 INCHES  
 SCALE = .0405 SCALE

## PARAMETRIC DATA

ALPHA = 5.000 BDFLAP = -12.000  
 ELEVON = .000 AILCON = .000  
 RUDDER = .000 SPDBRK = .000

RUN NO. 3/ 0 RN/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CLM	CDF	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-10.060	.22220	.03150	.02030	.22310	.00038	-.01440	.01850	.17900	.06000	.01966
.200	-5.050	.21470	.03650	.02600	.21620	.00668	-.00820	.01000	.09100	.05900	.01727
.200	.000	.20820	.04090	.03120	.21010	.00050	-.00150	.00050	.00400	.05800	.01552
.200	5.040	.21510	.03700	.02510	.21650	.00574	.00490	-.00870	-.08500	.05890	.01823
.200	10.090	.22130	.02940	.01810	.22210	-.00173	.01310	-.01810	-.17900	.06030	.01963
GRADIENT	.00004	-.00009	.00005	-.00009	.00003	-.00009	.00130	-.00185	-.01744	-.00001	.00009

Q162 B26C9 F8 W116E26V8R5X9

(RDW004) ( 09 NOV 73 )

## REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES  
 LREF = 19.2299 INCHES YMRP = .0000 INCHES  
 BREF = 37.9359 INCHES ZMRP = 15.1875 INCHES  
 SCALE = .0405 SCALE

## PARAMETRIC DATA

ALPHA = 10.000 BDFLAP = -12.000  
 ELEVON = .000 AILCON = .000  
 RUDDER = .000 SPDBRK = .000

RUN NO. 4/ 0 RN/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CLM	CDF	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-10.050	.47130	.03100	.05670	.47390	-.02859	-.01570	.02660	.17800	.06280	.02031
.200	-5.050	.46990	.03620	.05950	.46900	-.02488	-.00820	.01390	.09000	.06230	.01838
.200	.020	.45990	.04010	.06290	.46380	-.02051	-.00150	.00050	.00400	.06200	.01680
.200	5.050	.46370	.03560	.05760	.46650	-.02675	.00320	-.01270	-.08500	.06240	.01913
.200	10.060	.47450	.02870	.05200	.47620	-.03388	.01270	-.02590	-.17600	.06290	.02377
GRADIENT	-.00022	-.00019	-.00006	-.00019	-.00025	-.00018	.00133	-.00263	-.01733	.00001	.00007

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TABULATED SOURCE DATA - QAT2

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QAG2 826C9 F8 W116E26V8R5X9

(RDWD05) ( 09 NOV 73 )

## REFERENCE DATA

SEEF = 4.4119 50.FT. XMRP = 43.5974 INCHES  
 LREF = 19.2299 INCHES YMRP = .0000 INCHES  
 BREF = 37.9359 INCHES ZMRP = 15.1875 INCHES  
 SCALE = .0405 SCALE

ALPHA = 15.000 BDFLAP = -12.000  
 ELECON = .000 AILRON = .000  
 RUDDER = .000 SPDBRK = .000

## PARAMETRIC DATA

RUN NO. 5/ 0 RN/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CLM	CDF	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-10.070	.75540	.13710	.01460	.76450	-.07029	-.01180	.02950	.16500	.06450	.02468
.200	-5.040	.75280	.13950	.02270	.76260	-.06720	-.00740	.01340	.08800	.06410	.02111
.200	.000	.75170	.14380	.02880	.76270	-.06283	-.00060	.00030	.00100	.06380	.02037
.200	5.030	.76200	.14190	.02010	.77220	-.06748	.00530	-.01510	-.08700	.06420	.02200
.200	10.100	.77140	.13790	.00870	.78020	-.07385	.01020	-.02750	-.17000	.06480	.02563
GRADIENT	.00091	.00024	-.00026	.00095	.00095	-.00003	.00126	-.00303	-.01738	.00001	.00009

QAG2 826C9 F8 W116E26V8R5X9

(RDWD06) ( 09 NOV 73 )

## REFERENCE DATA

SEEF = 4.4119 50.FT. XMRP = 43.5974 INCHES  
 LREF = 19.2299 INCHES YMRP = .0000 INCHES  
 BREF = 37.9359 INCHES ZMRP = 15.1875 INCHES  
 SCALE = .0405 SCALE

BETA = .000 BDFLAP = -12.000  
 ELECON = 15.000 AILRON = .000  
 RUDDER = .000 SPDBRK = .000

## PARAMETRIC DATA

RUN NO. 6/ 0 RN/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	ALPHA	CL	CLM	CDF	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-3.980	.08550	-.10110	.03050	.08320	.03639	-.00190	.00080	.00400	.10990	.02281
.200	-1.910	.18060	-.10170	.03390	.17940	.03997	-.00160	.00080	.00400	.08600	.02281
.200	-.840	.22830	-.10190	.03650	.22780	.03995	-.00160	.00070	.00400	.08160	.02364
.200	.190	.27510	-.10150	.04030	.27520	.03959	-.00160	.00060	.00500	.07870	.02299
.200	1.190	.32190	-.10100	.04440	.32270	.03773	-.00180	.00050	.00500	.07670	.02318
.200	2.210	.36720	-.10080	.04970	.36880	.03548	-.00160	.00040	.00500	.07520	.02269
.200	4.260	.45450	-.09980	.06080	.45770	.02688	-.00150	.00020	.00400	.07300	.02341
.200	6.360	.55800	-.09900	.07810	.56320	.01576	-.00170	.00020	.00400	.07170	.02326
.200	8.410	.65490	-.10190	.09890	.66230	.00205	-.00150	.00000	.00400	.07080	.02361
.200	10.510	.77430	-.10940	.12990	.78500	-.01349	-.00140	-.00050	.00400	.07030	.02364
.200	12.360	.88830	-.11490	.16670	.90330	-.03071	-.00110	.00000	.00200	.06980	.02423
.200	14.720	1.00860	-.12030	.21480	1.03010	-.04861	-.00020	.00010	.00000	.06950	.02489
.200	16.750	1.12990	-.12810	.27130	1.16020	-.06600	.00050	.00000	-.00200	.06920	.02640
.200	18.850	1.24530	-.13510	.34660	1.29050	-.07450	.00820	.00500	-.02100	.06900	.02948
.200	20.950	1.34680	-.14070	.42990	1.41150	-.08012	.00820	.00110	-.01800	.06880	.03363
.200	23.020	1.45400	-.15480	.53030	1.54560	-.08674	.00260	-.00500	-.00500	.06850	.03815
.200	25.130	1.52010	-.17430	.61740	1.63840	-.08675	.00160	-.00500	-.00400	.06850	.04407
.200	27.100	1.49730	-.16940	.66350	1.63520	-.09164	.00380	.00560	-.01900	.06760	.04892
.200	28.990	1.31140	-.02550	.63590	1.45530	-.07957	.00510	.01250	-.03400	.06580	.06482
.200	30.960	1.19020	.00560	.65800	1.36600	-.05216	-.00140	.00830	-.01400	.06500	.07336
GRADIENT	-.04494	.00371	.00037	.04561	-.00113	-.00003	-.00008	-.00018	-.00404	-.00004	.00004



OM62 826C9 F8 W116E26V0R5X9

(RDW007) ( 09 NOV 73 )

## REFERENCE DATA

SREF = 4.4119 SQ.FT. XHRF = 43.5974 INCHES  
 LREF = 19.2299 INCHES YHRF = .0090 INCHES  
 BREF = 37.9359 INCHES ZHRF = 15.1875 INCHES  
 SCALE = .0495 SCALE

## PARAMETRIC DATA

BETA = .000 BDFLAP = -12.000  
 ELEWON = -20.000 AILRON = .000  
 RUDDER = .000 SPDBRK = .000

RUN NO. 7/ 0 RM/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	ALPHA	CL	CD	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-4.310	-.54180	.07970	.18090	-.54610	.03876	-.00260	-.00070	.00800	.07740	.00903
.200	-2.240	-.44980	.06400	.18190	-.45200	.04631	-.00260	-.00040	.00700	.08000	.00967
.200	-1.200	-.40420	.05710	.18230	-.40530	.04860	-.00250	-.00020	.00600	.08170	.01014
.200	-.200	-.36000	.05150	.18320	-.36020	.05021	-.00250	.00010	.00500	.08390	.01032
.200	.600	-.31240	.04570	.18350	-.31170	.05047	-.00240	.00000	.00400	.08680	.01064
.200	1.600	-.26870	.04190	.18470	-.26720	.05054	-.00250	.00010	.00300	.09060	.01036
.200	3.920	-.17430	.03490	.18500	-.17150	.04682	-.00250	.00010	.00200	.10490	.01106
.200	6.000	-.07760	.03050	.18750	-.07390	.03858	-.00240	.00010	.00100	.15840	.01218
.200	8.070	.01150	.03050	.19000	.01570	.02865	-.00220	.00020	.00000	-.37850	.01204
.200	10.120	.09930	.03500	.19730	.10390	.01702	-.00210	.00050	.00400	-.00460	.01241
.200	12.140	.19130	.04580	.20070	.19670	.00439	-.00190	.00060	.00300	.02760	.01223
.200	14.250	.29750	.06470	.20210	.30430	-.01054	-.00170	.00020	.00200	.04070	.01370
.200	16.370	.40120	.09320	.20350	.41120	-.02363	-.00040	.00150	.00000	.04700	.01431
.200	18.440	.50850	.12850	.20410	.52310	-.03950	.00040	.00350	-.00100	.05080	.01676
.200	20.550	.62510	.18120	.20060	.64890	-.04979	.00290	.00090	-.00400	.05380	.01916
.200	22.600	.73230	.23620	.19490	.76690	-.06339	.00440	.00110	-.00800	.05580	.02155
.200	24.680	.83770	.30510	.18590	.88650	-.07713	.00490	.00110	-.00900	.05740	.02569
.200	26.790	.93300	.37800	.17640	1.00330	-.08307	.00290	.00070	-.00500	.05870	.02987
.200	28.840	.99510	.44890	.17730	1.08820	-.08686	.00290	.00210	-.00600	.05920	.03368
.200	30.820	.99210	.48480	.17780	1.06650	-.07142	.00130	.01200	-.01800	.05830	.04745
GRADIENT		.04460	-.00545	.00054	.04549	.00099	.00002	.00010	-.00026	.00316	.00023

DATE 30 APR 74

TABULATED SOURCE DATA - QAT2

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QAG2 B26C9 F8 W16E26V8R5X9

(RDND008) ( 09 NOV 73 )

## REFERENCE DATA

SREF = 4.4119 50.FT. XREF = 43.9974 INCHES  
 LREF = 19.2299 INCHES YREF = .0000 INCHES  
 BREF = 37.9359 INCHES ZREF = 15.1875 INCHES  
 SCALE = .0405 SCALE

## PARAMETRIC DATA

BETA = .000 BDFLAP = -12.000  
 ELEVON = 5.000 ATLCON = .000  
 RUDDER = .000 SFDREK = .000

RUN NO. 0/ 0 RW/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	ALPHA	CL	CD	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-4.110	-.12330	.02760	-.00430	-.12700	.01861	-.00130	.00130	.00300	.06390	.01005
.200	-2.010	-.02720	.02470	-.00330	-.02800	.02380	-.00150	.00110	.00300	.06030	.01829
.200	-1.000	.01790	.02500	-.00330	.01740	.02534	-.00140	.00110	.00300	.07220	.01798
.200	.040	.06850	.02500	-.00330	.06650	.02496	-.00140	.00110	.00300	.06710	.01839
.200	1.060	.11450	.02600	-.00290	.11500	.02389	-.00160	.00090	.00400	.06610	.01855
.200	2.140	.16590	.02820	-.00330	.16670	.02197	-.00140	.00100	.00300	.06590	.01858
.200	4.140	.25770	.03430	-.00260	.25950	.01559	-.00130	.00120	.00200	.06550	.01879
.200	6.250	.36020	.04470	-.00390	.36290	.00523	-.00140	.00090	.00200	.06560	.01912
.200	8.330	.46280	.05950	-.00480	.46650	-.00811	-.00160	.00060	.00300	.06550	.01889
.200	10.370	.56050	.07940	-.00640	.56570	-.02281	-.00140	.00060	.00200	.06560	.01935
.200	12.490	.67390	.10830	-.00820	.68140	-.04004	-.00100	.00050	.00100	.06560	.02003
.200	14.560	.79380	.14660	-.01350	.80520	-.05805	-.00010	-.00020	-.00100	.06580	.02135
.200	16.660	.91640	.19640	-.02240	.93420	-.07464	.00030	.00080	-.00200	.06600	.02217
.200	18.780	1.04130	.26190	-.03160	1.07010	-.08744	.00540	.00250	-.01300	.06630	.02546
.200	20.830	1.15060	.33440	-.04060	1.19430	-.09675	.00830	.00280	-.01900	.06640	.02955
.200	22.880	1.26210	.41870	-.05340	1.32560	-.10513	.00630	.00020	-.01400	.06670	.03311
.200	24.990	1.35440	.51550	-.05950	1.44540	-.10511	.00160	-.00330	-.00200	.06670	.03802
.200	27.050	1.39540	.58650	-.04520	1.50950	-.11240	.00320	.00250	-.01300	.06630	.04293
.200	29.010	1.29990	.59870	.05680	1.42710	-.10700	.00320	.01400	-.03300	.06500	.05388
.200	30.930	1.14800	.60330	.05440	1.29490	-.07265	-.00130	.00950	-.01350	.06360	.06725
.200	GRADIENT	.04646	.00080	.00018	.04689	-.00039	.00002	-.00702	-.00007	.00026	.00009

DATE 30 APR 74

TABULATED SOURCE DATA - QAT2

OM62 B26C9 F8 W116E26V8R5X9

(RDW009) ( 09 NOV 73 )

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PARAMETRIC DATA

BETA = .000 BDFLAP = -12.000  
ELEVON = -5.000 AILRON = .000  
RUDDER = .000 SPDBRK = .000

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES  
LREF = 19.2299 INCHES YMRP = .0000 INCHES  
BREF = 37.9359 INCHES ZMRP = 15.1875 INCHES  
SCALE = .0405 SCALE

RUN NO. 9/ 0 RN/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	ALPHA	CL	CD	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-4.200	-.31770	.04320	.08400	-.32000	.01982	-.00220	.00260	.00400	.07480	.01272
.200	-2.160	-.22420	.03360	.08430	-.22530	.02515	-.00200	.00250	.00300	.07890	.01368
.200	-1.110	-.17690	.03020	.08500	-.17750	.02675	-.00200	.00250	.00300	.08280	.01388
.200	-.070	-.13030	.02810	.08550	-.13040	.02792	-.00180	.00220	.00300	.08930	.01370
.200	.980	-.08230	.02590	.08590	-.08180	.02739	-.00190	.00240	.00300	.10380	.01404
.200	1.990	-.03580	.02450	.08660	-.03490	.02576	-.00180	.00220	.00300	.15640	.01448
.200	4.120	.06320	.02470	.08750	.06480	.02010	-.00170	.00210	.00200	.01550	.01468
.200	6.110	.15700	.02880	.08860	.15920	.01190	-.00170	.00210	.00200	.04470	.01428
.200	8.200	.25270	.03600	.08980	.25530	-.00043	-.00140	.00240	.00200	.05230	.01471
.200	10.250	.46210	.04850	.08980	.35620	-.01508	-.00120	.00180	.00000	.05590	.01579
.200	12.410	.57880	.07090	.08870	.46660	-.04776	-.00070	.00100	.00000	.05820	.01570
.200	14.450	.69710	.09980	.08530	.58540	-.03008	-.00010	.00200	.00000	.05980	.01757
.200	16.520	.82300	.13990	.07960	.70820	-.06412	.00010	.00270	.00300	.06100	.01873
.200	18.620	.93740	.19520	.07180	.84230	-.07775	.00310	.00270	-.00900	.06200	.02132
.200	20.690	1.05370	.25860	.06170	.96830	-.08936	.00590	.00190	-.01400	.06280	.02403
.200	22.790	1.16060	.33210	.05110	1.10010	-.10199	.00580	.00050	-.01100	.06350	.02679
.200	24.880	1.23320	.41230	.04270	1.22640	-.11425	.00260	.00050	-.00700	.06390	.03071
.200	26.940	1.23060	.50020	.03990	1.32600	-.11291	.00390	.00490	-.01500	.06410	.03453
.200	28.980	1.07800	.54930	.02830	1.34300	-.11522	.00080	.01500	-.02300	.06340	.04288
.200	30.890	.04568	-.00220	.03045	1.20710	-.08211	-.00006	-.00006	-.00006	.06190	.05896
.200					.04616	.00006				-.00148	.00022

GRADIENT

DATE 30 APR 74

(EDJ010) ( 09 NOV 73 )

TABULATED SOURCE DATA - QAT2

QAG2 B26C9 F8 W116E26V0R5X9

PARAMETRIC DATA

BETA = .000 WDFLAP = -12.000  
ELEVON = -10.000 ALLCON = .000  
RUDDER = .000 SPDBRK = .000

REFERENCE DATA

SREF = 4.4119 SQ.FT. YMRP = 43.5974 INCHES  
LMRP = 19.2299 INCHES YMRP = .0000 INCHES  
BREF = 37.9359 INCHES ZMRP = 15.1875 INCHES  
SCALE = .0405 SCALE

RUN NO. 10/ 0 RN/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

WACH	ALPHA	CL	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-4.210	-.41460	.05200	-.41730	.02140	-.00190	.00140	.00500	.07630	.01137
.200	-2.150	-.31960	.04070	-.32110	.02867	-.00190	.00140	.00500	.07950	.01145
.200	-1.110	-.27140	.03600	-.27210	.03076	-.00200	.00130	.00500	.08210	.01183
.200	-.060	-.22630	.03220	-.22640	.03193	-.00190	.00130	.00500	.08570	.01212
.200	-.950	-.17770	.02920	-.17720	.03216	-.00190	.00140	.00400	.09150	.01226
.200	2.000	-.13090	.02610	-.12990	.03068	-.00190	.00130	.00400	.10125	.01308
.200	4.030	-.03790	.02400	-.03610	.02663	-.00200	.00120	.00400	.19665	.01276
.200	6.130	.05910	.02450	.06140	.01813	-.00180	.00110	.00400	-.01300	.01319
.200	8.200	.15610	.02800	.15860	.00626	-.00170	.00120	.00300	.03440	.01417
.200	10.240	.25280	.03340	.25570	-.00630	-.00150	.00130	.00200	.04590	.01389
.200	12.390	.35950	.03720	.36340	-.02134	-.00100	.00080	.00300	.05170	.01463
.200	14.390	.46950	.08270	.47540	-.03658	-.00010	.00090	.00200	.05500	.01502
.200	16.490	.58540	.11710	.59460	-.05384	-.00000	.00000	-.00100	.05730	.01752
.200	18.590	.70130	.16210	.71640	-.06985	.00090	.00240	-.00300	.05880	.01881
.200	20.690	.82330	.22310	.84980	-.08012	.00480	.00440	-.00800	.06120	.02172
.200	22.790	.93910	.29260	.97920	-.09364	.00600	.00120	-.01200	.06130	.02376
.200	24.870	1.04800	.37040	1.10660	-.10475	.00530	.00330	-.01100	.06200	.02713
.200	26.910	1.12870	.45340	1.21170	-.10673	.00230	.00080	-.00400	.06250	.03246
.200	28.960	1.15660	.51530	1.26330	-.11018	.00360	.00270	-.01000	.06230	.03816
.200	30.910	1.04070	.52810	1.16420	-.08147	-.00030	.01480	-.02700	.06180	.05424
.200				.04622	.00061	.00200	-.00002	-.00016	.01230	.00021

GRADIENT

QAG2 B26C9 F8 W116E28V8R5X9

(EDW011) ( 09 NOV 73 )

## REFERENCE DATA

SREF = 4.4119 SQ.FT. XREF = 43.9974 INCHES  
 LREF = 19.2299 INCHES YREF = .0000 INCHES  
 BREF = 37.9359 INCHES ZREF = 15.1075 INCHES  
 SCALE = .0405 SCALE

BETA = .000 BDFLAP = -12.000  
 ELEVON = .000 AILRON = 10.000  
 RUDDER = .000 SFDPRK = .000

## PARAMETRIC DATA

RUN NO. 11/ 0 RN/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

WACH	ALPHA	CL	CD	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.200	-4.150	-.21700	.03840	.03640	-.21920	.02267	.00370	.03720	-.02300	.07130	.01077
.200	-2.010	-.11850	.03320	.03640	-.11960	.02907	.00450	.03740	-.02700	.07640	.01816
.200	-.970	-.06910	.03150	.03660	-.06960	.03035	.00480	.03760	-.02900	.08450	.01832
.200	.000	-.02430	.03070	.03740	-.02430	.03076	.00510	.03800	-.03100	.12160	.01843
.200	1.020	.02280	.03080	.03760	.02330	.03039	.00560	.03820	-.03200	.00580	.01847
.200	2.060	.07000	.03090	.03840	.07100	.02845	.00580	.03850	-.03300	.04530	.01881
.200	4.110	.16660	.03410	.03950	.16860	.02213	.00650	.03910	-.03700	.05650	.01923
.200	6.190	.26140	.04170	.03940	.26440	.01333	.00710	.04050	-.04100	.05970	.01856
.200	8.290	.35850	.05280	.03990	.36240	.00159	.00760	.04020	-.04300	.06110	.01940
.200	10.440	.44560	.07130	.04010	.47100	-.01432	.00840	.04110	-.04700	.06200	.01978
.200	12.440	.57260	.09600	.03700	.57990	-.02959	.00940	.04200	-.05200	.06280	.02056
.200	14.490	.68500	.12930	.03290	.69560	-.04625	.01060	.04220	-.05700	.06340	.02133
.200	16.610	.85650	.17590	.02910	.82310	-.06207	.01170	.04370	-.06300	.06390	.02139
.200	18.660	.93060	.23520	.01830	.95690	-.07497	.01410	.04670	-.06700	.06450	.02406
.200	20.780	1.04250	.30310	.01000	1.08220	-.08663	.01540	.04440	-.07000	.06480	.02630
.200	22.960	1.14290	.37930	.00160	1.20050	-.09451	.01240	.04140	-.06500	.06510	.02964
.200	24.940	1.24660	.47100	-.05620	1.32920	-.09877	.00750	.03740	-.05400	.06530	.03521
.200	26.990	1.30850	.55000	-.07250	1.41560	-.10375	.00400	.03530	-.04400	.06520	.04055
.200	28.990	1.24520	.57260	.04170	1.36670	-.10269	.00350	.02130	-.01900	.06400	.05102
.200	30.990	1.10490	.58080	.06620	1.24640	-.08890	-.00060	.01890	-.00300	.06260	.06337
.200	GRADIENT	.04640	-.00053	.00040	.04691	-.00007	.00034	.00024	-.00165	-.00460	.00007

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TABULATED SOURCE DATA - Q472

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Q462 826C9 F8 W16E26V4R5X9

(RDW012) ( 09 NOV 73 )

## REFERENCE DATA

XREF = 4.4119 SQ.FT. XREF = 43.5974 INCHES  
 LREF = 19.2299 INCHES YREF = .0099 INCHES  
 BREF = 37.9359 INCHES ZREF = 15.1875 INCHES  
 SCALE = .0405 SCALE

## PARAMETRIC DATA

BETA = .000 BDFLAP = -12.000  
 ELEVON = 10.000 AILRON = .000  
 RUDDER = .000 SFCBRK = .000

RUN NO. 12/ 0 RV/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	ALPHA	CL	CD	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-4.040	-.01490	.02710	-.05500	-.01680	.02600	-.00160	.00000	.00500	-.05480	.02041
.200	-1.960	.04280	.02680	-.05550	.08180	.02964	-.00170	.00000	.00500	.09010	.02154
.200	-.930	.12640	.02820	-.05550	.12790	.03036	-.00160	.00000	.00500	.08115	.02141
.200	.100	.17930	.03080	-.05520	.17940	.03051	-.00170	-.00020	.00600	.07650	.02111
.200	1.110	.22470	.03290	-.05600	.22530	.02862	-.00170	-.00010	.00600	.07430	.02218
.200	2.160	.27280	.03650	-.05590	.27400	.02627	-.00160	-.00020	.00500	.07270	.02208
.200	4.230	.36970	.04660	-.05520	.37220	.01926	-.00170	-.00030	.00500	.07160	.02168
.200	6.310	.46740	.06070	-.05680	.47130	.00892	-.00160	-.00030	.00500	.06960	.02137
.200	8.370	.56620	.07840	-.05820	.57360	-.00511	-.00160	-.00080	.00600	.06890	.02198
.200	10.450	.67270	.10340	-.06040	.68030	-.02035	-.00150	-.00120	.00600	.06840	.02216
.200	12.540	.78690	.13670	-.06480	.79780	-.03745	-.00090	-.00070	.00300	.06820	.02255
.200	14.610	.90020	.17830	-.06920	.91590	-.05458	-.00010	-.00080	.00100	.06790	.02304
.200	16.700	1.02320	.23190	-.07780	1.04860	-.07259	.00030	-.00070	.00000	.06790	.02462
.200	18.800	1.14570	.30260	-.08730	1.18210	-.08286	.00670	.00250	-.01400	.06790	.02683
.200	20.910	1.25120	.38110	-.09390	1.30480	-.09072	.00920	.00240	-.01800	.06780	.03155
.200	23.020	1.36660	.47260	-.10720	1.44260	-.09898	.00610	-.00140	-.01100	.06790	.03746
.200	25.080	1.44650	.56550	-.10980	1.54990	-.10049	.00340	-.00230	-.00500	.06780	.04078
.200	27.100	1.45240	.62850	-.08160	1.57930	-.10221	.00380	.00480	-.01600	.06710	.04515
.200	29.030	1.30290	.61470	-.06980	1.43750	-.09479	.00500	.00850	-.02500	.06540	.05898
.200	30.940	1.16190	.62710	.02620	1.31900	-.09952	.00100	.00400	-.01200	.06440	.07075
.200	GRADIENT	.04646	.00235	-.00005	.04700	-.00082	-.00001	-.00006	.00002	.01063	.00016

QAG2 B26C9 F8 W16E226V8R5X9

(RDW013) ( 09 NOV 73 )

## REFERENCE DATA

SKEP = 4.4119 50.17. XMEP = 43.5974 INCHES  
 LKEP = 19.2299 INCHES YMEP = .0000 INCHES  
 BKEP = 37.9359 INCHES ZMEP = 15.1875 INCHES  
 SCALE = .0405 SCALE

## PARAMETRIC DATA

BETA = .000 BDFLAP = -12.000  
 ELEVEN = .000 AILRON = .000  
 RUDDER = -15.000 SPDBRK = .000

RUN NO. 13/ 0 RW/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

WACH	ALPHA	CL	COF	CLN	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-4.140	-.22110	.03610	.04260	-.22310	.02005	.02020	-.01300	-.04400	.07220	.01774
.200	-2.070	-.12550	.03135	.04260	-.12660	.02679	.01970	-.01270	-.04300	.07760	.01701
.200	-1.540	-.07770	.02660	.04260	-.07820	.02723	.01960	-.01230	-.04300	.08330	.01818
.200	.000	-.01480	.01560	.03270	-.01480	.01564	.00560	-.00090	.13800	.14620	.01926
.200	1.010	.01710	.02810	.04360	.01760	.02780	.01910	-.01210	-.04200	-.02590	.01753
.200	2.040	.06480	.02830	.04340	.06570	.02604	.01900	-.01200	-.04100	.04180	.01792
.200	4.110	.15460	.03210	.04420	.16050	.02065	.01860	-.01180	-.04000	.05500	.01730
.200	6.200	.25930	.03640	.04360	.26220	.01021	.01820	-.01150	-.03900	.05900	.01835
.200	8.260	.35600	.04000	.04350	.36150	-.00190	.01780	-.01120	-.03800	.06080	.01762
.200	10.330	.48010	.04620	.04250	.48460	-.01739	.01780	-.01070	-.03800	.06180	.01871
.200	12.420	.57050	.05130	.04070	.57680	-.03352	.01760	-.01090	-.03800	.06260	.01908
.200	14.500	.66220	.05450	.03630	.69160	-.05023	.01830	-.01160	-.03900	.06320	.01954
.200	16.590	.80950	.05940	.02950	.82420	-.06873	.01930	-.01080	-.04200	.06380	.02212
.200	18.680	.93160	.06290	.01900	.95620	-.08116	.02340	-.00990	-.04900	.06440	.02445
.200	20.770	1.04590	.06770	.01060	1.08350	-.09254	.02730	-.00970	-.05600	.06480	.02772
.200	22.870	1.16150	.07370	-.00020	1.21700	-.10359	.02690	-.01110	-.05600	.06520	.03078
.200	24.950	1.26160	.08290	-.00620	1.33910	-.11267	.02690	-.01280	-.05600	.06530	.03522
.200	27.010	1.32220	.04810	-.00280	1.42510	-.11146	.02420	-.00970	-.05500	.06520	.04093
.200	29.000	1.26810	.07920	.03580	1.38990	-.10821	.02680	-.00210	-.06900	.06420	.04812
.200	30.920	1.11580	.07990	.08510	1.25520	-.07586	.02220	.00510	-.07600	.06270	.06267
.200	GRADIENT	.04609	-.00052	.00020	.04657	.00003	-.00020	.00015	.00054	-.00582	-.00001

QAG2 B26C9 F8 W16E226V8R5X9

(RDW014) ( 09 NOV 73 )

## REFERENCE DATA

SKEP = 4.4119 50.17. XMEP = 43.5974 INCHES  
 LKEP = 19.2299 INCHES YMEP = .0000 INCHES  
 BKEP = 37.9359 INCHES ZMEP = 15.1875 INCHES  
 SCALE = .0405 SCALE

## PARAMETRIC DATA

ALPHA = .000 BDFLAP = -12.000  
 ELEVEN = .000 AILRON = .000  
 RUDDER = -15.000 SPDBRK = .000

RUN NO. 14/ 0 RW/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

WACH	BETA	CL	COF	CLN	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-10.050	-.01570	.01560	.03200	-.01570	.01565	.00560	-.00050	.13800	.14010	.01922
.200	-5.050	-.02670	.02480	.03910	-.02670	.02488	.01380	-.00680	.04600	.11900	.01722
.200	.000	-.03040	.02670	.04350	-.03040	.02875	.01890	-.01200	-.04000	.11790	.01756
.200	5.020	-.02220	.02260	.03710	-.02220	.02260	.02470	-.01730	-.12800	.12660	.01950
.200	10.070	-.01130	.01220	.02820	-.01130	.01227	.02840	-.02090	-.21300	.15630	.02215
.200	GRADIENT	.00045	-.00022	-.00020	.00045	-.00023	.00108	-.00104	-.01728	.00075	.00023

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## TABULATED SOURCE DATA - 0472

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0462 B26C9 F0 W116E26V085X9

## REFERENCE DATA

SEEF = 4.4119 SQ.FT. INSEP = 43.5974 INCHES  
 LREF = 19.2299 INCHES YREF = .0000 INCHES  
 BREF = 37.9359 INCHES ZREF = 15.1875 INCHES  
 SCALE = .0405 SCALE

RUN NO. 15/ 0 RV/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	ALPHA	CL	COF	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-4.190	-.22090	.03330	.03930	-.22240	.01724	.01060	-.00720	-.02200	.07170	.01613
.200	-2.970	-.12340	.02760	.03920	-.12430	.02311	.01020	-.00490	-.02200	.07680	.01655
.200	-1.530	-.07370	.02600	.03900	-.07620	.02465	.01000	-.003670	-.02200	.08440	.01650
.200	.030	-.02950	.02420	.03950	-.02250	.02427	.01000	-.00670	-.02100	.11440	.01683
.200	1.030	.01820	.02490	.04040	.01860	.02463	.00970	-.00650	-.02100	-.01430	.01652
.200	2.030	.06790	.02480	.04060	.06800	.02240	.00950	-.00650	-.02000	.04340	.01744
.200	4.110	.16190	.02870	.04130	.16350	.01700	.00920	.00610	-.02000	.05590	.01696
.200	6.180	.26070	.03580	.04060	.26310	.00751	.00880	-.00610	-.01800	.05950	.01714
.200	8.250	.36000	.04730	.04010	.36310	-.00482	.00860	-.00580	-.01900	.06110	.01686
.200	10.320	.46210	.06460	.03990	.46620	-.01928	.00850	-.00560	-.01800	.06200	.01732
.200	12.400	.57180	.08950	.03740	.57760	-.03540	.00850	-.00580	-.01900	.06280	.01841
.200	14.500	.68660	.12410	.03390	.69530	-.05178	.00860	-.00700	-.01900	.06340	.01907
.200	16.590	.81210	.16940	.02650	.82670	-.06947	.00870	-.00680	-.01900	.06400	.02242
.200	18.690	.93470	.23210	.01630	.95980	-.07981	.01170	-.00680	-.02400	.06450	.02476
.200	20.770	1.05010	.30450	.00390	1.08980	-.08772	.01430	-.00630	-.02900	.06500	.02721
.200	22.890	1.16500	.38520	-.00900	1.22310	-.09825	.01380	-.00690	-.02800	.06530	.03037
.200	24.950	1.25360	.46820	-.00920	1.33450	-.10339	.01120	-.01090	-.02200	.06540	.03520
.200	27.020	1.31000	.54500	-.00720	1.41460	-.10969	.01260	-.01000	-.02300	.06520	.04036
.200	29.080	1.29050	.62330	.00590	1.40230	-.11194	.01540	-.00190	-.04300	.06440	.04739
.200	30.910	1.10160	.57270	.08190	1.23940	-.07469	.01120	.00700	-.04800	.06270	.06082
GRADIENT	.04629	-.00056	.00026	.04671	-.00205	-.00017	-.00012		.00030	-.00524	.00012

(RD-016) ( 09 NOV 73 )

## PARAMETRIC DATA

ALPHA = .000 BDFLAP = -12.000  
 ELEVON = .000 AILRON = .000  
 RUDDER = -7.500 SPDBRK = .000

MACH	BETA	CL	COF	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-10.030	-.01260	.01370	.02970	-.01260	.01375	-.00360	.00480	.15800	.15160	.01854
.200	-8.040	-.02280	.02240	.03620	-.02280	.02240	.00320	-.00560	.06800	.12360	.01645
.200	-6.010	-.02890	.02620	.04060	-.02890	.02620	.00960	-.00670	-.02000	.11670	.01649
.200	5.020	-.02360	.02020	.03440	-.02360	.02026	.01540	-.01240	-.10800	.11880	.01870
.200	10.070	-.00980	.01030	.02610	-.00980	.01035	.02030	-.01670	-.19500	.16300	.02121
GRADIENT	-.00004	-.00022	-.00018	-.00018	-.00008	-.00021	.00121	-.00117	-.001750	-.00049	.00022

RUN NO. 16/ 0 RV/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

## REFERENCE DATA

SEEF = 4.4119 SQ.FT. INSEP = 43.5974 INCHES  
 LREF = 19.2299 INCHES YREF = .0000 INCHES  
 BREF = 37.9359 INCHES ZREF = 15.1875 INCHES  
 SCALE = .0405 SCALE

MACH	BETA	CL	COF	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-10.030	-.01260	.01370	.02970	-.01260	.01375	-.00360	.00480	.15800	.15160	.01854
.200	-8.040	-.02280	.02240	.03620	-.02280	.02240	.00320	-.00560	.06800	.12360	.01645
.200	-6.010	-.02890	.02620	.04060	-.02890	.02620	.00960	-.00670	-.02000	.11670	.01649
.200	5.020	-.02360	.02020	.03440	-.02360	.02026	.01540	-.01240	-.10800	.11880	.01870
.200	10.070	-.00980	.01030	.02610	-.00980	.01035	.02030	-.01670	-.19500	.16300	.02121
GRADIENT	-.00004	-.00022	-.00018	-.00018	-.00008	-.00021	.00121	-.00117	-.001750	-.00049	.00022



Q162 826C9 F0J43J16E26V085X10

(R04017) ( 09 NOV 73 )

## REFERENCE DATA

SREF = 4.4119 30-FT. XREF = 43.5974 INCHES  
 LREF = 19.2299 INCHES YREF = .0000 INCHES  
 BREF = 37.9359 INCHES ZREF = 15.1875 INCHES  
 SCALE = .0495 SCALE

RUN NO. 17/ 0 RM/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	ALPHA	CL	CLF	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-4.170	-2.4540	.04590	.01620	-2.4810	.02795	-.00180	.00020	.00300	-.06760	.01690
.200	-2.100	-1.4920	.03690	.02280	-.15050	.03142	-.00180	.00030	.00400	.07070	.01690
.200	-1.070	-.09760	.03370	.02590	-.09820	.03191	-.00190	.00030	.00400	.07490	.01712
.200	-.010	-.04560	.03150	.02990	-.04560	.03153	-.00180	.00040	.00400	.08860	.01742
.200	.990	.00360	.03060	.03180	.00440	.03078	-.00170	.00050	.00300	-.19970	.01724
.200	2.030	.05470	.03020	.03320	.05560	.02825	-.00170	.00050	.00300	.04190	.01796
.200	4.090	.15650	.03390	.04030	.15890	.02271	-.00180	.00060	.00300	.05580	.01783
.200	6.120	.29950	.04190	.04430	.26250	.01371	-.00220	.00070	.00400	.05900	.01810
.200	8.240	.36250	.05630	.04840	.36690	.00378	-.00230	.00040	.00400	.06030	.01740
.200	10.330	.47020	.07670	.05430	.47640	-.00089	-.00210	.00060	.00400	.06140	.01827
.200	12.450	.57800	.10400	.05990	.58700	-.02221	-.00200	.00040	.00300	.06100	.01861
.200	14.530	.68870	.14040	.06570	.70190	-.03687	-.00210	.00060	.00300	.06190	.02023
.200	16.580	.79290	.18210	.07090	.81190	-.05182	-.00180	.00040	.00300	.06220	.02121
.200	18.670	.89450	.22910	.07440	.92070	-.06920	-.00180	.00070	.00300	.06260	.02296
.200	20.760	.99370	.30070	.07990	1.03560	-.07100	.00070	.00070	.00300	.06270	.02501
.200	22.820	1.05790	.36260	.07580	1.11570	-.07608	.00000	.00160	.00300	.06270	.03079
.200	24.870	1.10100	.43100	.07980	1.18020	-.07199	.00190	.00440	.00300	.06250	.03556
.200	26.910	1.12720	.49910	.08660	1.23100	-.06507	.00190	-.00060	.00300	.06220	.03983
.200	28.950	1.13150	.55690	.10100	1.25970	-.06208	.00310	-.00230	.00300	.06180	.04644
.200	30.990	1.13570	.61360	.11810	1.28970	-.05767	.00180	-.00330	.00300	.06180	.05218
.200	GRADIENT	.04682	-.00149	.02293	.04939	-.02065	.00201	.00005	-.00025	-.00069	.00014

Q162 826C9 F0J43J16E26V085X10

(R04018) ( 09 NOV 73 )

## REFERENCE DATA

SREF = 4.4119 30-FT. XREF = 43.5974 INCHES  
 LREF = 19.2299 INCHES YREF = .0000 INCHES  
 BREF = 37.9359 INCHES ZREF = 15.1875 INCHES  
 SCALE = .0495 SCALE

RUN NO. 18/ 0 RM/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CLF	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-10.090	-.02640	.01800	.01800	-.02650	.01804	-.00940	.00720	.21300	.09020	.01964
.200	-9.070	-.04040	.02820	.02340	-.04040	.02818	-.00600	.00440	.11200	.08650	.01712
.200	.010	-.04670	.03140	.02990	-.04670	.03142	-.00170	.00050	.00500	.08790	.01765
.200	3.040	-.04200	.02690	.02330	-.04210	.02689	.00300	-.00320	-.10100	.08560	.01826
.200	10.100	.01640	.01640	.03150	-.03150	.01641	.00730	-.00660	-.20900	.08460	.02031
.200	GRADIENT	-.00016	-.00013	-.00001	-.00017	-.00013	.00089	-.00075	-.02107	-.00009	.00011

## PARAMETRIC DATA

ALPHA = .000 BDFLAP = -12.000  
 ELECON = .000 AILCON = .000  
 RUDDER = .000 SPCBRK = .000  
 MACX/L = .000

## PARAMETRIC DATA

ALPHA = .000 BDFLAP = -12.000  
 ELECON = .000 AILCON = .000  
 RUDDER = .000 SPCBRK = .000  
 MACX/L = .000

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TABULATED SOURCE DATA - QAT2

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QAGE 826C9 F0J43W16E26V6R5X10

(R04019) ( 09 NOV 73 )

## REFERENCE DATA

2407 = 4.0159 24.01. 2407 = 43.9974 INCHES  
 2407 = 19.2299 INCHES 2407 = .0200 INCHES  
 2407 = 37.9359 INCHES 2407 = 15.1875 INCHES  
 SCALE = .0405 SCALE

RUN NO. 19/ 0 RNL = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CLF	CLM	CM	CAF	CYN	CBL	CY	KCF/L	CAB
.200	-13.090	.47820	.06640	.04590	.48090	-.01829	-.00900	.02400	.20500	.06170	.02265
.200	-3.080	.47360	.07460	.04540	.47930	-.01175	-.00350	.01240	.10500	.06140	.01876
.200	-.010	.46710	.07700	.05330	.47330	-.00606	-.00230	.00030	.00500	.06100	.01446
.200	5.085	.46840	.07850	.05020	.47380	-.01284	.00040	-.01100	-.09700	.06130	.01984
.200	10.090	.47340	.06320	.04550	.47910	-.02320	.00450	-.02300	-.20000	.06170	.02545
GRADIENT	-.00052	-.00021	-.00026	.00028	-.00055	-.00011	.00059	-.00232	-.02004	-.00001	.00011

(R04020) ( 09 NOV 73 )

QAGE 826C9 F0J43W16E26V6R5X10

## REFERENCE DATA

2407 = 4.4119 24.01. 2407 = 43.9974 INCHES  
 2407 = 19.2299 INCHES 2407 = .0200 INCHES  
 2407 = 37.9359 INCHES 2407 = 15.1875 INCHES  
 SCALE = .0405 SCALE

RUN NO. 20/ 0 RNL = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	ALPHA	CL	CLF	CLM	CM	CAF	CYN	CBL	CY	KCF/L	CAB
.200	-4.170	-.24570	.04650	.03000	-.24850	.02956	-.00180	-.00020	.00000	.06960	.01673
.200	-8.080	-.08770	.03620	.03150	-.14900	.03290	-.00190	-.00010	.00000	.07300	.01729
.200	-1.060	-.09750	.03560	.03220	-.09790	.03381	-.00190	-.00020	.00100	.07730	.01712
.200	-.080	-.04750	.03340	.03350	-.04760	.03356	-.00190	-.00020	.00200	.09100	.01757
.200	1.040	.00340	.03260	.03420	.00400	.03258	-.00170	.00020	.00200	-.24830	.01738
.200	2.070	.05300	.03190	.03520	.03420	.03005	-.00170	.00020	.00300	.04120	.01781
.200	4.180	.13380	.03440	.03780	.15590	.02310	-.00160	.00030	.00300	.05940	.01792
.200	6.170	.24680	.04110	.03930	.23180	.01411	-.00200	.00010	.00500	.06100	.01761
.200	8.280	.35230	.05320	.04030	.35630	.00189	-.00190	.00020	.00400	.06190	.01893
.200	10.360	.45940	.07170	.04130	.46490	-.01211	-.00170	.00010	.00300	.06250	.01952
.200	12.420	.56690	.09940	.04150	.57500	-.02482	-.00170	.00000	.00300	.06300	.02034
.200	14.490	.67640	.13590	.04110	.69580	-.03810	-.00120	.00040	.00300	.06300	.02108
.200	16.590	.78780	.17930	.04090	.80630	-.05310	-.00030	.00040	.00000	.06300	.02281
.200	18.680	.89870	.22500	.04010	.92470	-.07037	-.00030	.00030	.00000	.06360	.02585
.200	20.780	1.00560	.26790	.03910	1.04230	-.08729	.00120	.00030	-.01800	.06370	.03045
.200	22.830	1.06690	.35500	.04540	1.12290	-.08756	.00120	.00650	-.01700	.06360	.03832
.200	24.670	1.10750	.41330	.04910	1.17640	-.09022	.00210	.00195	.00300	.06360	.04359
.200	26.890	1.15790	.48850	.05250	1.21170	-.09681	-.00210	-.00030	.00200	.06320	.05016
.200	29.910	1.15790	.54170	.06540	1.23170	-.06145	-.00090	-.00030	.00200	.06260	.05397
.200	30.920	1.15790	.59950	.07990	1.25750	-.05462	.00050	-.00030	.00300	.06260	.05397
GRADIENT	.04765	-.00146	-.00146	.00093	.04854	-.00066	.00003	.00018	.00039	-.01014	.00014

GRADIENT

CASE 826C9 F0J43M16E26V085X10

(RDJ022) ( 09 NOV 73 )

## REFERENCE DATA

SREF = 4.4119 50.FT. WREF = 43.5974 INCHES  
 LREF = 19.2299 INCHES YREF = .0000 INCHES  
 BREF = 37.9359 INCHES ZREF = 15.1075 INCHES  
 SCALE = .0405 SCALE

## PARAMETRIC DATA

ALPHA = .000 DOFLAP = -12.000  
 ELEVON = .000 AILERON = .000  
 RUDDER = .000 SPOILER = .000  
 NACA/L = .480

RUN NO. 22/ 0 RUN/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CD	CM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-10.000	-.03390	.02010	.02430	-.03390	.02015	-.01120	.00640	.21500	.09160	.01927
.200	-5.070	-.04290	.02990	.02940	-.04290	.02990	-.00710	.00400	.10950	.09140	.01734
.200	.010	-.04770	.03370	.03330	-.04770	.03370	-.00160	.00200	.00300	.09190	.01735
.200	5.020	-.04390	.02790	.02790	-.04390	.02791	.00390	-.00350	-.10400	.08860	.01779
.200	10.000	-.03500	.01660	.02110	-.03500	.01662	.00940	-.00670	-.21200	.08730	.01934
GRADIENT	-.00010	-.00020	-.00020	-.00015	-.00010	-.00020	.00109	-.00074	-.02111	-.00318	.00094

CASE 826C9 F0J43M16E26V085X10

(RDJ022) ( 09 NOV 73 )

## REFERENCE DATA

SREF = 4.4119 50.FT. WREF = 43.5974 INCHES  
 LREF = 19.2299 INCHES YREF = .0000 INCHES  
 BREF = 37.9359 INCHES ZREF = 15.1075 INCHES  
 SCALE = .0405 SCALE

## PARAMETRIC DATA

ALPHA = 10.000 DOFLAP = -12.000  
 ELEVON = .000 AILERON = .000  
 RUDDER = .000 SPOILER = .000  
 NACA/L = .480

RUN NO. 22/ 0 RUN/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CD	CM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-10.000	.46740	.06470	.03170	.47140	-.02026	-.01170	.02270	.21300	.06270	.02247
.200	-5.070	.43920	.06040	.03670	.46420	-.01414	-.00680	.01170	.10800	.06230	.01802
.200	.000	.45650	.07100	.04150	.46190	-.01135	-.00190	.00060	.00500	.06190	.01953
.200	5.010	.45750	.06600	.03730	.46230	-.01524	.00240	-.01040	-.09900	.06220	.01946
.200	10.000	.46550	.06700	.03150	.46870	-.02448	.00780	-.02120	-.25600	.06270	.02468
GRADIENT	-.00017	-.00014	-.00014	.00006	-.00019	-.00011	.00091	-.00219	-.02054	-.00001	.00007

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TABULATED SOURCE DATA - Q472

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OM62 B26C9 F8J44W116E26V8R5X10

(RDW023) ( 09 NOV 73 )

## REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.9974 INCHES  
 LREF = 19.2299 INCHES YMRP = .0000 INCHES  
 BREF = 37.9359 INCHES ZMRP = 15.1875 INCHES  
 SCALE = .0405 SCALE

BETA = .000 BDFLAP = -12.000  
 ELEWON = .000 AILRON = .000  
 RUDDER = .000 SPDBRK = .000  
 NACX/L = .480

RUN NO. 23/ 0 RN/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	ALPHA	CL	CD	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-4.100	-.24710	.04540	.03160	-.24980	.02725	-.00190	.00050	.00500	.06980	.01675
.200	-2.060	-.15260	.03700	.03450	-.15390	.03153	-.00200	.00010	.00800	.07340	.01661
.200	-1.050	-.10330	.03460	.03520	-.10390	.03275	-.00200	.00000	.00800	.07770	.01695
.200	-.020	-.05230	.03290	.03610	-.03240	.03290	-.00190	.00020	.00700	.09560	.01663
.200	.990	-.00310	.03160	.03690	-.00260	.03169	-.00190	.00010	.00600	.58520	.01750
.200	2.020	.04680	.03120	.03780	.04780	.02956	-.00780	.00020	.00600	.03610	.01782
.200	4.080	.14760	.03370	.03980	.14970	.02314	-.00180	.00010	.00700	.05340	.01803
.200	6.200	.24960	.04040	.04140	.25250	.01323	-.00180	.00000	.00600	.05930	.01760
.200	8.240	.35310	.05220	.04090	.35700	.00108	-.00200	-.00010	.00800	.06090	.01783
.200	10.320	.45960	.07010	.04220	.46470	-.01332	-.00220	.00000	.00700	.06180	.01870
.200	12.440	.57090	.09760	.04180	.57760	-.02741	-.00190	-.00010	.00600	.06250	.01864
.200	14.490	.68050	.13370	.04100	.69230	-.04077	-.00130	.00010	.00400	.06300	.02005
.200	16.610	.79430	.17680	.04010	.81170	-.05772	-.00080	.00000	.00200	.06330	.02155
.200	18.730	.90590	.23260	.03690	.93260	-.07070	-.00050	.00040	.00400	.06370	.02272
.200	20.790	1.02050	.29650	.03030	1.05930	-.08511	-.00080	-.00020	.00600	.06410	.02656
.200	22.860	1.12330	.37200	.02840	1.18070	-.09102	.00050	.00010	.00200	.06430	.03031
.200	24.980	1.16070	.47200	.04250	1.23550	-.09661	.00080	-.00020	.00200	.06390	.03453
.200	26.960	1.19920	.50130	.04370	1.29620	-.09694	.00160	-.00450	.00600	.06390	.04076
.200	28.930	1.16860	.55230	.05500	1.29500	-.08187	.00310	-.00550	.00600	.06360	.04901
.200	30.950	1.14010	.60380	.07290	1.28830	-.06864	.00310	.00300	-.00900	.06310	.05592
GRADIENT	.04805	-.00142	.00095	.00095	.04862	-.00049	.00002	-.00003	.00005	.00860	.00019

F8J44W116E26V8R5X10

(RDW024) ( 09 NOV 73 )

## REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.9974 INCHES  
 LREF = 19.2299 INCHES YMRP = .0000 INCHES  
 BREF = 37.9359 INCHES ZMRP = 15.1875 INCHES  
 SCALE = .0405 SCALE

ALPHA = .000 BDFLAP = -12.000  
 ELEWON = .000 AILRON = .000  
 RUDDER = .000 SPDBRK = .000  
 NACX/L = .480

RUN NO. 24/ 0 RN/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CD	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-10.080	-.02980	.02050	.02470	-.02980	.02055	-.01240	.00590	.22200	.09570	.01922
.200	-5.070	-.03950	.02960	.02950	-.03950	.02964	-.00730	.00410	.11500	.09270	.01725
.200	.010	-.05160	.03280	.03630	-.05160	.03280	-.00180	.00030	.00800	.09110	.01723
.200	5.030	-.04710	.02700	.03120	-.04710	.02707	.00420	-.00310	-.10300	.08960	.01811
.200	10.120	-.03450	.01640	.02300	-.03450	.01641	.01030	-.00650	-.21600	.08970	.01948
GRADIENT	-.00076	-.00026	.00017	.00017	-.00076	-.00025	.00114	-.00071	-.02158	-.00031	.00008

PARAMETRIC DATA

REFERENCE DATA  
 SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES  
 LREF = 19.2299 INCHES YMRP = .0000 INCHES  
 BREF = 37.9359 INCHES ZMRP = 15.1875 INCHES  
 SCALE = .5495 SCALE

PARAMETRIC DATA  
 ALPHA = 10.000 BDFLAP = -12.000  
 ELEVON = .000 AILRON = .000  
 RUDDER = .000 SPDRK = .000  
 NACX/L = .480

PARAMETRIC DATA  
 RUN NO. 25/ 0 RV/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

PARAMETRIC DATA  
 MACH .200 BETA -10.070 CL .46750 CLM .03220 CN .47130 CAF .032124 CYN -.01240 CBL .02130 CY .21900 XCP/L .06260 CAB .02268  
 .200 .200 -5.060 .46370 .03770 .46860 -.01546 -.00760 .01070 .11500 .06220 .01916  
 .200 .200 .020 .45970 .04220 .46500 -.01263 -.00220 .00010 .00800 .06180 .01880  
 .200 .200 5.040 .46060 .06670 .46510 -.01701 .00280 -.00980 .10700 .06210 .01983  
 .200 .200 10.100 .46390 .05980 .46710 -.02442 .00760 -.02120 .20400 .06270 .02420  
 GRADIENT -.00031 -.00021 -.00004 -.00035 -.00015 .00103 .00203 -.00001 .00007

PARAMETRIC DATA  
 RUN NO. 26/ 0 RV/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

PARAMETRIC DATA  
 SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES  
 LREF = 19.2299 INCHES YMRP = .0000 INCHES  
 BREF = 37.9359 INCHES ZMRP = 15.1875 INCHES  
 SCALE = .0405 SCALE

PARAMETRIC DATA  
 ALPHA -4.150 CL -24000 CLM .01760 CN -24290 CAF .03045 CYN -.00160 CBL .00030 CY .00400 XCP/L .06780 CAB .01675  
 .200 .200 -2.090 .14680 .03790 .02330 -.14800 .03256 -.00170 .00080 .00200 .00200 .01690  
 .200 .200 -1.030 .09610 .03470 .02670 -.09670 .03298 -.00170 .00080 .00200 .00200 .01676  
 .200 .200 .000 .04850 .03220 .02950 -.04850 .03222 -.00170 .00060 .00300 .00300 .01717  
 .200 .200 1.000 .00150 .03140 .03210 .00200 .03144 -.00170 .00060 .00300 .00300 .01752  
 .200 .200 2.040 .05120 .03150 .03420 .00230 .02967 -.00170 .00060 .00200 .00200 .01720  
 .200 .200 4.140 .15700 .03400 .03910 .15900 .02259 -.00180 .00030 .00300 .00300 .01796  
 .200 .200 6.230 .26240 .04200 .04290 .26540 .01333 -.00200 .00090 .00200 .00200 .01753  
 .200 .200 8.280 .36440 .05490 .04640 .36850 .00187 -.00220 .00050 .00400 .00400 .01755  
 .200 .200 10.320 .46880 .07450 .05060 .47450 -.01076 -.00210 .00070 .00300 .00300 .01851  
 .200 .200 12.490 .57970 .10340 .05870 .58840 -.02436 -.00160 .00070 .00200 .00200 .02022  
 .200 .200 14.600 .68830 .13830 .06250 .70090 -.03972 -.00160 .00030 .00000 .00000 .02097  
 .200 .200 16.660 .79720 .18230 .06600 .92780 -.05399 -.00140 .00030 .00250 .00250 .02329  
 .200 .200 18.700 .90160 .22990 .06620 1.04500 -.07128 -.00180 .00030 .00250 .00250 .02546  
 .200 .200 20.770 1.01460 .29790 .07000 1.12630 -.07769 .00460 .00000 .00250 .00250 .02955  
 .200 .200 22.830 1.06670 .36900 .07000 1.20180 -.07277 .00210 .00010 .00500 .00500 .03426  
 .200 .200 24.880 1.12090 .43960 .07490 1.25150 -.06746 .00230 -.00100 .00200 .00200 .04092  
 .200 .200 26.990 1.1470 .50800 .08280 1.28400 -.06440 .00320 -.00280 .00100 .00200 .04568  
 .200 .200 28.970 1.15440 .56570 .09160 1.31070 -.05932 .00240 -.00150 .00100 .00200 .05175  
 .200 .200 30.970 1.15470 .62310 .11670 1.31070 -.05932 .00240 -.00150 .00100 .00200 .05175  
 GRADIENT .04791 -.00165 .00261 .04849 -.00089 -.00002 -.00001 -.00007 -.01562 .00014

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TABULATED SOURCE DATA - QM72

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OM62 B26C9 F8J44M16E26V8R5X10

(RDM027) ( 09 NOV 73 )

## REFERENCE DATA

SREF = 4.4119 SQ.FT. XREF = 43.5974 INCHES  
 LREF = 19.2299 INCHES YREF = .0000 INCHES  
 BREF = 37.9359 INCHES ZREF = 15.1875 INCHES  
 SCALE = .0405 SCALE

## PARAMETRIC DATA

ALPHA = .000 BDFLAP = -12.000  
 ELEVON = .000 AILRON = .000  
 RUDDER = .000 SPDBRK = .000  
 MACX/L = .000

RUN NO. 27/ 0 RV/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-10.000	-.02820	.01870	-.02820	.01873	-.00970	.00630	.21900	.09590	.01987
.200	-5.070	-.03930	.02310	-.03930	.02940	-.00600	.00410	.11200	.08690	.01724
.200	.020	-.04750	.02930	-.04750	.03212	-.00150	.00120	.00300	.08790	.01746
.200	5.040	-.04160	.02390	-.04160	.02840	.00300	-.00290	-.10200	.08630	.01787
.200	10.110	-.02910	.01750	-.02910	.01754	.00800	-.00550	-.21200	.08650	.02033
GRADIENT	-.00023	-.00010	.00008	-.00023	-.00010	.00089	-.00069	-.02117	-.00006	.00006

OM62 B26C9 F8J44M16E26V8R5X10

(RDM028) ( 09 NOV 73 )

## REFERENCE DATA

SREF = 4.4119 SQ.FT. XREF = 43.5974 INCHES  
 LREF = 19.2299 INCHES YREF = .0000 INCHES  
 BREF = 37.9359 INCHES ZREF = 15.1875 INCHES  
 SCALE = .0405 SCALE

## PARAMETRIC DATA

ALPHA = 10.000 BDFLAP = -12.000  
 ELEVON = .000 AILRON = .000  
 RUDDER = .000 SPDBRK = .000  
 MACX/L = .000

RUN NO. 28/ 0 RV/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-10.100	.48170	.06710	.48590	-.02106	-.00920	.02270	.21200	.06190	.02255
.200	-5.060	.47390	.07430	.47950	-.01227	-.00560	.01200	.10900	.06160	.01888
.200	.000	.46980	.07580	.47570	-.01002	-.00190	.00130	.00300	.06120	.01817
.200	5.030	.47280	.07090	.47790	-.01537	.00100	-.00990	-.10000	.06150	.02012
.200	10.110	.47870	.06330	.48220	-.02409	.00480	-.02100	-.20700	.06190	.02474
GRADIENT	-.00011	-.00034	.00008	-.00016	-.00031	.00065	-.00217	-.02067	-.00001	.00012

DATE 30 APR 74

TABULATED SOURCE DATA - QAT2

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QAT2 B26C9 F8J46W116E26V8R5X10

(RDW029) ( 09 NOV 73 )

## REFERENCE DATA

SREF = 4.4119 SQ.FT. XREF = 43.5974 INCHES  
LREF = 19.2299 INCHES YREF = .0000 INCHES  
BREF = 37.9359 INCHES ZREF = 15.1875 INCHES  
SCALE = .0405 SCALE

## PARAMETRIC DATA

BETA = .000 BDFLAP = -12.000  
ELEVON = .000 AILRON = .000  
RUDDER = .000 SPDBRK = .000  
MACX/L = .480

RUN NO. 29/ 0 RN/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	ALPHA	CL	CD	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-4.120	-1.9580	.04030	.03470	-.19820	.02615	-.00180	.00040	.00400	.07160	.01565
.200	-2.070	-.09960	.03450	.03640	-.10080	.03089	-.00200	.00060	.00400	.07850	.01738
.200	-1.000	-.04940	.03410	.03740	-.05000	.03327	-.00200	.00050	.00500	.09270	.01691
.200	.010	.00110	.03330	.03840	.00110	.03335	-.00190	.00070	.00400	-1.16270	.01764
.200	1.040	.05070	.03400	.03910	.05130	.03316	-.00200	.00080	.00400	.03710	.01777
.200	2.070	.03650	.03400	.03980	.10140	.03241	-.00200	.00080	.00500	.05070	.01760
.200	4.130	.19580	.04130	.03990	.19830	.02713	-.00210	.00050	.00500	.05780	.01836
.200	6.250	.30120	.05320	.03940	.30520	.02013	-.00210	.00020	.00500	.06040	.01716
.200	8.290	.40370	.06950	.03670	.40950	.01015	-.00240	-.00010	.00600	.06190	.01786
.200	10.360	.50660	.09160	.03590	.51490	-.00099	-.00210	.00020	.00600	.06260	.01859
.200	12.440	.61310	.11880	.04000	.62630	-.01643	-.00170	.00020	.00300	.06280	.01936
.200	14.520	.71180	.15400	.04380	.72770	-.02932	-.00170	.00010	.00300	.06290	.01858
.200	16.580	.80560	.19040	.04670	.82160	-.04601	-.00060	.00110	.00000	.06310	.02040
.200	18.660	.88700	.23810	.04570	.91660	-.05833	-.00030	.00130	-.00100	.06330	.01968
.200	20.730	.98550	.29670	.03740	1.02670	-.07143	.00210	-.00040	-.00800	.06380	.02287
.200	22.810	1.04590	.38900	.03160	1.11490	-.04688	.01160	.01280	-.03200	.06410	.03195
.200	24.850	1.09500	.45380	.03240	1.18430	-.04841	.01320	.01300	-.03000	.06420	.03736
.200	26.860	1.08520	.52320	.04920	1.20450	-.02356	.00050	.00100	-.00300	.06370	.04411
.200	28.890	1.03400	.57520	.06300	1.23570	-.02506	.00050	.00070	-.00600	.06330	.05010
.200	30.930	1.12800	.62310	.06630	1.28780	-.04549	.00060	.00070	-.00700	.06330	.05578
GRADIENT	.04769	.00016	.00016	.00568	.04828	.00016	-.00003	.00003	.00012	-.00387	.00028

QAT2 B26C9 F8J46W116E26V8R5X10

(RDW030) ( 09 NOV 73 )

## REFERENCE DATA

SREF = 4.4119 SQ.FT. XREF = 43.5974 INCHES  
LREF = 19.2299 INCHES YREF = .0000 INCHES  
BREF = 37.9359 INCHES ZREF = 15.1875 INCHES  
SCALE = .0405 SCALE

## PARAMETRIC DATA

ALPHA = .000 BDFLAP = -12.000  
ELEVON = .000 AILRON = .000  
RUDDER = .000 SPDBRK = .000  
MACX/L = .480

RUN NO. 30/ 0 RN/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CD	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-10.110	.01370	.02150	.02720	.01370	.02159	-.01090	.01260	.02000	-.00760	.01854
.200	-5.060	.00660	.03090	.03250	.00660	.03095	-.00660	.00680	.00400	-.11440	.01674
.200	.000	-.00030	.03410	.03840	-.00030	.03410	-.00180	.00080	.00600	-1.80830	.01700
.200	5.030	.00190	.02940	.03390	.00190	.02942	.00300	-.00590	-.00100	-.56460	.01766
.200	10.590	.01140	.01900	.02620	.01140	.01901	.00810	-.01240	-.01920	-.01920	.01969
GRADIENT	-.00047	-.00015	-.00015	.00014	-.00047	-.00015	.00095	-.00126	-.01933	-.04491	.00009

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TABULATED SOURCE DATA - 0472

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0462 B26C9 F8J46W116Z26V8R5X10

(RDW031) ( 09 NOV 73 )

## REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES  
 LREF = 19.2299 INCHES YMRP = .0000 INCHES  
 BREF = 37.9359 INCHES ZMRP = 15.1875 INCHES  
 SCALE = .0405 SCALE

ALPHA = 10.000 BDFLAP = -12.000  
 ELEVON = .000 AILRON = .000  
 RUDDER = .000 SPOBRK = .000  
 NACX/L = .480

## PARAMETRIC DATA

RUN NO. 31/ 0 RV/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CD	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-10.070	.49980	.07980	.03020	.50600	-.01134	-.01050	.02670	.18200	.06300	.02345
.200	-5.060	.50430	.08720	.03230	.51180	-.00502	-.00630	.01450	.09400	.06280	.02067
.200	.000	.50470	.09180	.03610	.51300	-.00050	-.00220	.00050	.00700	.06260	.01886
.200	5.040	.49990	.08950	.03160	.50790	-.00187	.00190	-.01270	-.08500	.06290	.01833
.200	10.060	.50090	.07930	.02940	.50700	-.01213	.00730	-.02600	-.18000	.06300	.02124
GRADIENT	-.00044	.00023	-.00007	-.00039	.00031	.00081	.00069	-.00269	-.01772	.00001	-.00023

## REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES  
 LREF = 19.2299 INCHES YMRP = .0000 INCHES  
 BREF = 37.9359 INCHES ZMRP = 15.1875 INCHES  
 SCALE = .0405 SCALE

BETA = .000 BDFLAP = -12.000  
 ELEVON = .000 AILRON = .000  
 RUDDER = .000 SPOBRK = .000  
 NACX/L = .480

## PARAMETRIC DATA

RUN NO. 32/ 0 RV/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	ALPHA	CL	CD	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-4.140	-.19600	.04010	.03280	-.19840	.02583	-.00210	.00060	.00600	.07130	.01687
.200	-2.070	-.09780	.03480	.03410	-.09900	.03127	-.00220	.00060	.00700	.07780	.01727
.200	-1.020	-.04640	.03360	.03450	-.04700	.03281	-.00220	.00060	.00600	.09220	.01746
.200	.040	.00650	.03310	.03560	.00650	.03311	-.00220	.00060	.00600	-.13450	.01782
.200	1.030	.05290	.03430	.03590	.05350	.03335	-.00220	.00060	.00600	.04050	.01718
.200	2.140	.10450	.03480	.03620	.10570	.03086	-.00220	.00060	.00600	.05250	.01779
.200	4.110	.20310	.04020	.03770	.20550	.02561	-.00220	.00060	.00600	.05840	.01830
.200	6.200	.30330	.05410	.03370	.30740	.02102	-.00250	.00060	.01100	.06110	.01812
.200	8.290	.40180	.07420	.02610	.40830	.01544	-.00240	.00000	.00800	.06280	.01802
.200	10.370	.50320	.09640	.02530	.51230	.00420	-.00190	.00050	.00500	.06330	.01891
.200	12.410	.60590	.12290	.02910	.61820	-.001018	-.00180	.00040	.00500	.06340	.01852
.200	14.520	.71340	.15490	.03340	.72950	-.02885	-.00110	.00080	.00000	.06350	.02536
.200	16.600	.83160	.19390	.03840	.85230	-.05174	-.00150	.00080	.00300	.06350	.02198
.200	18.700	.93030	.23880	.03980	.95780	-.07200	-.00170	.00170	.00300	.06360	.02397
.200	20.750	1.02400	.29430	.03610	1.06190	-.08761	.00210	.00010	-.00500	.06390	.02726
.200	22.820	1.08420	.36630	.03720	1.14140	-.08289	.01150	.00610	-.02400	.06400	.02928
.200	24.860	1.11190	.45440	.03870	1.19990	-.05534	.00260	.00080	-.01100	.06400	.03092
.200	26.870	1.12260	.50080	.04100	1.22770	-.06065	.00030	.00450	-.01500	.06390	.03847
.200	28.980	1.14310	.56700	.05100	1.27470	-.05801	.00400	.01120	-.01500	.06370	.04344
.200	30.970	1.15250	.62570	.06830	1.31020	-.05660	.00000	.00210	.00200	.06320	.04832
GRADIENT	.04831	.00002	.00002	.00023	.04389	-.00002	-.00001	.00000	-.00005	-.00366	.00015



0462 B26C9 F8J45W116E26V6R5X10

(RDM033) ( 09 NOV 73 )

## REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES  
 LREF = 19.2299 INCHES YMRP = .0000 INCHES  
 BREF = 37.9359 INCHES ZMRP = 15.1875 INCHES  
 SCALE = .0405 SCALE

## PARAMETRIC DATA

ALPHA = .000 BDFLAP = -12.000  
 ELEVEN = .000 AILRON = .000  
 RUDDER = .000 SPDBRK = .000  
 NACX/L = .480

RUN NO. 33/ 0 RN/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CLM	CDF	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-10.090	.01440	.02100	.02100	.01440	.02104	-.01090	.01270	.20700	.00270	.01861
.200	-5.060	.00810	.03010	.03020	.00810	.03019	-.00650	.00690	.10800	-.07120	.01674
.200	.000	.00180	.03340	.03340	.00180	.03348	-.00190	.00080	.00700	-.65210	.01721
.200	5.050	.00550	.02860	.02860	.00550	.02865	.00310	-.00580	-.09500	-.13940	.01811
.200	10.090	.01290	.02020	.02020	.01290	.02028	.00820	-.01270	-.19500	.00480	.01983
GRADIENT	-.00026	-.00015	.00008	-.00015	-.00026	-.00015	.00095	-.00126	-.02068	-.00678	.00014

0462 B26C9 F8J45W116E26V6R5X10

(RDM034) ( 09 NOV 73 )

## REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES  
 LREF = 19.2299 INCHES YMRP = .0000 INCHES  
 BREF = 37.9359 INCHES ZMRP = 15.1875 INCHES  
 SCALE = .0405 SCALE

## PARAMETRIC DATA

ALPHA = 10.000 BDFLAP = -12.000  
 ELEVEN = .000 AILRON = .000  
 RUDDER = .000 SPDBRK = .000  
 NACX/L = .480

RUN NO. 34/ 0 RN/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CLM	CDF	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-10.100	.51000	.02150	.02150	.51630	-.01171	-.01020	.02720	.18400	.06370	.02384
.200	-5.060	.51070	.02440	.02440	.51830	-.00487	-.00580	.01450	.09000	.06340	.02121
.200	-.020	.50070	.02470	.02470	.51010	.00619	-.00180	.00070	.00700	.06340	.01871
.200	5.020	.51210	.02340	.02340	.52010	-.00271	.00120	-.01410	-.07900	.06350	.01977
.200	10.070	.51060	.01750	.01750	.51730	-.00929	.00550	-.02710	-.17400	.06390	.02117
GRADIENT	.00014	.00025	-.00010	.00014	.00018	.00021	.00069	-.00284	-.01677	.00001	-.00014

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TABULATED SOURCE DATA - QAT2

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QAG2 B26C9 F8J48W116E26V8R5X10

(RDW036) ( 09 NOV 73 )

## REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES  
 LREF = 19.2299 INCHES YMRP = .0000 INCHES  
 BRZF = 37.9359 INCHES ZMRP = 15.1875 INCHES  
 SCALE = .0405 SCALE

BETA = .000 BDFLAP = -12.000  
 ELECON = .000 AILCON = .000  
 RUDDER = .000 SPDBRK = .000  
 WACK/L = .480

## PARAMETRIC DATA

RUN NO. 35/ 0 RN/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	ALPHA	CL	CD	CLN	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.208	-4.180	-.25190	.04350	.02300	-.25450	.02306	-.00180	.00120	.00200	.56850	.01652
.200	-2.110	-.15430	.03450	.02590	-.15540	.02887	-.00170	.00110	.00300	.07130	.01711
.200	-1.070	-.10520	.03170	.02740	-.10580	.02981	-.00180	.00090	.00300	.07470	.01728
.200	-.030	-.05490	.02950	.02930	-.05490	.02982	-.00180	.00100	.00300	.08480	.01745
.200	.990	-.00660	.02900	.03120	-.00610	.02917	-.00180	.00090	.00300	.25320	.01661
.200	2.030	.04460	.02850	.03260	.04560	.02699	-.00190	.00060	.00400	.03880	.01752
.200	4.070	.14180	.03070	.03540	.14360	.02058	-.00190	.00040	.00400	.05610	.01791
.200	6.170	.24550	.03730	.03730	.24810	.01071	-.00190	.00020	.00400	.05960	.01772
.200	8.260	.35020	.04860	.03930	.35360	-.00220	-.00210	.00020	.00400	.06110	.01823
.200	10.310	.45250	.06680	.04160	.45720	-.01527	-.00210	.00040	.00300	.06180	.01838
.200	12.400	.56190	.09220	.04440	.56860	-.03564	-.00170	.00020	.00300	.06230	.01885
.200	14.480	.67420	.12480	.04660	.68400	-.04778	-.00130	-.00010	.00100	.06270	.01962
.200	16.550	.78220	.16310	.04810	.79620	-.06644	-.00140	.00010	.00100	.06290	.02100
.200	18.650	.89300	.21020	.05030	.91330	-.08652	-.00170	.00060	.00100	.06310	.02206
.200	20.730	.99600	.26280	.04400	1.03160	-.08811	.00980	.00500	-.02100	.06360	.02601
.200	22.820	1.07710	.34270	.05090	1.12570	-.10188	.00740	.00420	-.01700	.06350	.02953
.200	24.870	1.13110	.41490	.04910	1.20570	-.09939	.00190	.00190	-.00500	.06370	.03533
.200	26.900	1.14140	.48370	.05380	1.23670	-.08511	.00100	-.00020	-.00200	.06360	.03944
.200	28.910	1.14490	.54230	.06420	1.26440	-.07880	.00130	.00220	-.00500	.06330	.05030
.200	30.930	1.15400	.60300	.07760	1.29990	-.07650	.00170	.00070	-.00400	.06300	.05441
.200	GRADIENT	.04779	-.00152	.00154	.04832	-.00351	-.00002	-.00010	.00023	.00148	.00013

QAG2 B26C9 F8J48W116E26V8R5X10

(RDW036) ( 09 NOV 73 )

## REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES  
 LREF = 19.2299 INCHES YMRP = .0000 INCHES  
 BRZF = 37.9359 INCHES ZMRP = 15.1875 INCHES  
 SCALE = .0405 SCALE

ALPHA = .000 BDFLAP = -12.000  
 ELECON = .000 AILCON = .000  
 RUDDER = .000 SPDBRK = .000  
 WACK/L = .480

## PARAMETRIC DATA

MACH	BETA	CL	CD	CLN	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-10.130	-.04230	.01540	.02040	-.04230	.01540	-.00990	.00780	.00600	.08290	.01967
.200	-5.100	-.09050	.02490	.02470	-.09050	.02594	-.00600	.00520	.00400	.08320	.01687
.200	-.040	-.05560	.02940	.02930	-.05560	.02946	-.00170	.00080	.00400	.08460	.01739
.200	4.990	-.05400	.02490	.02560	-.05400	.02487	.00300	-.00340	-.00700	.08260	.01836
.200	10.650	-.04690	.01400	.0196	-.04690	.01451	.00810	-.00680	-.00300	.08050	.02008
.200	GRADIENT	-.00035	-.00010	.00009	-.00035	-.00011	.00089	-.00085	-.01992	-.00006	.00015

Q462 B26C9 F0J47M16E26V0R5X10

(RDM037) ( 09 NOV 73 )

## REFERENCE DATA

SREF = 4.4119 SQ.FT. XREF = 43.5974 INCHES  
 LREF = 19.2299 INCHES YREF = .0000 INCHES  
 BREF = 37.9359 INCHES ZREF = 15.1875 INCHES  
 SCALE = .0405 SCALE

## PARAMETRIC DATA

ALPHA = 10.000 BDFLAP = -12.000  
 ELEVON = .000 AILRON = .000  
 RUDDER = .000 SPDRBK = .000  
 NACX/L = .480

RUN NO. 37/ 0 RN/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CD	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-10.090	.46130	.05880	.03420	.46440	-.02491	-.01020	.02330	.19900	.06250	.02264
.200	-5.060	.45750	.06450	.03780	.46120	-.01860	-.00620	.01220	.10100	.06210	.01871
.200	.010	.45240	.06660	.04180	.45700	-.01567	-.00190	.00060	.00350	.06180	.01898
.200	5.030	.45410	.06340	.03780	.45810	-.01909	.00190	-.01080	-.09500	.06210	.01952
.200	10.110	.45830	.05490	.03250	.46070	-.02817	.00650	-.02260	-.19500	.06260	.02394
GRADIENT	-.00029	-.00011	-.00000	.00000	-.00031	-.00055	.00080	-.00228	-.01943	-.00000	.00008

Q462 B26C9 F0J47M16E26V0R5X10

(RDM038) ( 09 NOV 73 )

## REFERENCE DATA

SREF = 4.4119 SQ.FT. XREF = 43.5974 INCHES  
 LREF = 19.2299 INCHES YREF = .0000 INCHES  
 BREF = 37.9359 INCHES ZREF = 15.1875 INCHES  
 SCALE = .0405 SCALE

## PARAMETRIC DATA

BETA = .000 BDFLAP = -12.000  
 ELEVON = .000 AILRON = .000  
 RUDDER = .000 SPDRBK = .000  
 NACX/L = .000

RUN NO. 38/ 0 RN/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	ALPHA	CL	CD	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-4.180	-.25840	.04490	.02730	-.26100	.02604	-.00220	.00380	.00500	.06950	.01683
.200	-2.070	-.15590	.03650	.02950	-.15710	.03089	-.00190	.00070	.00400	.07200	.01635
.200	-1.010	-.10350	.03310	.03060	-.10410	.03128	-.00180	.00040	.00400	.07650	.01706
.200	.060	-.09090	.03090	.03160	-.09080	.03101	-.00170	.00050	.00400	.08800	.01704
.200	1.090	-.00180	.03010	.03310	-.00120	.03015	-.00170	.00013	.00500	1.00660	.01704
.200	2.060	.04860	.03010	.03450	.04960	.02840	-.00160	.00040	.00400	.03960	.01721
.200	4.120	.14790	.03260	.03720	.14980	.02192	-.00150	.00020	.00300	.03300	.01715
.200	6.230	.25520	.03900	.03860	.25790	.01116	-.00150	.00010	.00300	.05970	.01813
.200	8.370	.36260	.05130	.04500	.36620	-.00197	-.00150	.00010	.00300	.06110	.01794
.200	10.350	.46460	.06960	.04180	.46950	-.01502	-.00150	.00000	.00300	.06190	.01788
.200	12.430	.57660	.09600	.04390	.58370	-.03033	-.00160	-.00030	.00000	.06240	.01848
.200	14.520	.68660	.13050	.04670	.69740	-.04581	-.00070	-.00000	.00000	.06270	.01997
.200	16.610	.79520	.17150	.04910	.81110	-.06293	-.00070	-.00040	.00000	.06290	.02110
.200	18.690	.89990	.21750	.05070	.92210	-.08219	-.00050	.00000	.00000	.06310	.02362
.200	20.790	1.00550	.27200	.05160	1.03660	-.10191	-.00020	.00030	-.00100	.06330	.02690
.200	22.890	1.08890	.34070	.05350	1.05120	-.10978	.00070	.00200	-.01700	.06340	.03026
.200	24.940	1.15730	.41740	.05120	1.22540	-.10968	.00710	.00480	-.01700	.06360	.03566
.200	26.920	1.17540	.48680	.05010	1.26840	-.09818	.00300	.00300	-.00800	.06370	.04199
.200	28.990	1.17450	.55300	.06230	1.29530	-.08556	.00010	-.00210	.00000	.06340	.04744
.200	30.990	1.16640	.61800	.07790	1.33530	-.08108	-.00050	-.00780	.01600	.06300	.05090
GRADIENT	-.04917	-.00151	-.00122	.00122	.04971	-.00051	.00008	-.00008	-.00016	.01890	.00007

QAG2 B26C9 F8J47M16E26V085X10

(RD4039) ( 09 NOV 73 )

## REFERENCE DATA

SREF = 4.4119 34. FT.    XREF = 43.5974 INCHES  
 LREF = 19.2299 INCHES    YREF = .0000 INCHES  
 BREF = 37.9359 INCHES    ZREF = 15.1875 INCHES  
 SCALE = .0405 SCALE

RUN NO. 39/ 0    RM/L = 1.42    GRADIENT INTERVAL = -6.00/ 6.00

## PARAMETRIC DATA

ALPHA = .000    BCFLAP = -12.000  
 ELEVON = .000    AILERON = .000  
 RUDDER = .000    SPOILER = .000  
 NACX/L = .000

MACN	BETA	CL	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.000	-10.100	-.04010	.01760	-.04010	.01784	-.01100	.00400	.23760	.08340	.01887
.000	-5.040	-.04600	.02770	-.04600	.02773	-.00600	.00300	.12200	.08680	.01652
.000	.000	-.05340	.03090	-.05350	.03091	-.00160	.00040	.00500	.08620	.01696
.000	5.090	-.05100	.02340	-.05100	.02345	-.00340	-.00210	-.11400	.08340	.01783
.000	10.110	-.04450	.01330	-.04450	.01331	.00910	-.00400	-.23200	.08300	.01920
GRADIENT	-.00050	-.00023	-.00010	-.00050	-.00023	.00105	-.00051	-.02339	-.00014	.00033

QAG2 B26C9 F8J47M16E26V085X10

(RD4040) ( 09 NOV 73 )

## REFERENCE DATA

SREF = 4.4119 34. FT.    XREF = 43.5974 INCHES  
 LREF = 19.2299 INCHES    YREF = .0000 INCHES  
 BREF = 37.9359 INCHES    ZREF = 15.1875 INCHES  
 SCALE = .0405 SCALE

RUN NO. 40/ 0    RM/L = 1.42    GRADIENT INTERVAL = -6.00/ 6.00

## PARAMETRIC DATA

ALPHA = 10.000    BCFLAP = -12.000  
 ELEVON = .000    AILERON = .000  
 RUDDER = .000    SPOILER = .000  
 NACX/L = .000

MACN	BETA	CL	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.000	-10.090	.47410	.06370	.47780	-.02232	-.01010	.02080	.22300	.02550	.02221
.000	-5.070	.46690	.06960	.47580	-.01553	-.00500	.01070	.11100	.06210	.01900
.000	.010	.46400	.07190	.46940	-.01245	-.00030	.00120	.00100	.06170	.01904
.000	5.050	.46670	.06930	.47160	-.01541	.00330	-.00820	-.10800	.06210	.01935
.000	10.170	.46900	.06040	.47220	-.02463	.00850	-.01860	-.22400	.06260	.02328
GRADIENT	-.00022	-.00003	-.00003	-.00022	.00001	.00082	-.00187	-.02164	-.00000	.00003

QAG2 B26C9 F0J49W16E26V0R5X10

(RDW041) ( 09 NOV 73 )

## REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES  
 LREF = 19.2299 INCHES YMRP = .0000 INCHES  
 BREF = 37.9359 INCHES ZMRP = 15.1875 INCHES  
 SCALE = .0405 SCALE

## PARAMETRIC DATA

BETA = .000 BDFLAP = -12.000  
 ELEVON = .000 AILRON = .000  
 RUDDER = .000 SFDPRK = .000  
 MACX/L = .000

RUN NO. 41/ 0 RW/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	ALPHA	CL	CD	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-4.170	-2.4670	.04440	.01710	-.24930	.02634	-.00210	.00070	.00000	.06770	.01635
.250	-2.080	-1.4250	.03550	.02200	-.14370	.03035	-.00190	.00070	.00100	.07080	.01667
.200	-.960	-.08730	.03230	.02450	-.08780	.03083	.00100	.00100	.00200	.07540	.01678
.250	.000	-.04050	.02990	.02780	-.04050	.02995	-.00170	.00100	.00300	.09050	.01732
.200	1.070	.01140	.02900	.03150	.01190	.02878	-.00160	.00080	.00300	-.03200	.01777
.250	2.060	.06000	.03000	.03480	.06100	.02790	-.00150	.00080	.00200	.04410	.01696
.200	4.140	.16410	.03260	.04070	.16600	.02069	-.00170	.00560	.00300	.05610	.01819
.250	6.270	.27070	.04110	.04490	.27360	.01130	-.00170	.00010	.00400	.05910	.01847
.200	8.290	.36750	.05510	.04940	.37170	.00150	-.00180	.00040	.00300	.06030	.01804
.250	10.370	.47590	.07620	.05530	.48180	-.01071	-.00150	.00040	.00100	.06090	.01883
.200	12.490	.56710	.10500	.06130	.59590	-.02451	-.00140	.00050	.00000	.06140	.01914
.250	14.610	.69660	.14150	.06540	.70980	-.03886	-.00130	.00030	.00000	.06180	.01997
.200	16.600	.79720	.18150	.07030	.81570	-.05380	-.00130	-.00030	.00000	.06200	.02178
.250	18.690	.89680	.22910	.07810	.92290	-.07036	-.00120	-.00040	.00100	.06200	.02322
.200	20.800	.99760	.29550	.07580	1.03880	-.07470	.00820	.00060	-.01600	.06250	.02733
.250	22.840	1.06850	.36310	.07870	1.12570	-.08019	.00910	.00370	-.01900	.06260	.03016
.200	24.890	1.11170	.43240	.08420	1.19040	-.07565	.00300	.00070	-.00600	.06260	.03272
.250	26.950	1.14790	.50370	.09050	1.25150	-.07135	.00130	.00100	-.00500	.06250	.04054
.200	29.070	1.14620	.56780	.10470	1.27770	-.06562	.00110	.00260	-.00700	.06210	.04869
.250	30.990	1.14920	.61830	.11920	1.30350	-.06162	.00090	.00080	-.00500	.06180	.05418
GRADIENT	.04930	-.00142	-.00054	.00291	.04984	-.00067	.00006	-.00001	.00035	-.00479	.00021

QAG2 B26C9 F0J49W16E26V0R5X10

(RDW042) ( 09 NOV 73 )

## REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES  
 LREF = 19.2299 INCHES YMRP = .0000 INCHES  
 BREF = 37.9359 INCHES ZMRP = 15.1875 INCHES  
 SCALE = .0405 SCALE

## PARAMETRIC DATA

ALPHA = .000 BDFLAP = -12.000  
 ELEVON = .000 AILRON = .000  
 RUDDER = .000 SFDPRK = .000  
 MACX/L = .000

RUN NO. 42/ 0 RW/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CD	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-10.100	-.02400	.01790	.01890	-.02400	.01792	-.00840	.00600	.21200	.09430	.01921
.250	-5.070	-.03100	.02740	.02350	-.03100	.02747	-.00600	.00450	.10800	.09310	.01698
.200	.010	-.03910	.03020	.02790	-.03910	.03028	-.00150	.00120	.00300	.09140	.01747
.250	5.040	-.03640	.02460	.02420	-.03640	.02467	.00290	-.00320	-.10300	.08960	.01818
.200	10.130	-.02370	.01400	.01710	-.02370	.01403	.00750	-.00650	-.21300	.09180	.02021
GRADIENT	-.00054	-.00028	-.00054	.00057	-.00054	-.00028	.00068	-.00076	-.02087	-.00035	.00012

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TABULATED SOURCE DATA - QAT2

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QAG2 B26C9 F8J49M16E26V85X10

(R04043) ( 09 NOV 73 )

## REFERENCE DATA

SREF = 4.4119 24.171 INCHES  
 LREF = 19.2299 INCHES TREF = 43.5974 INCHES  
 BREF = 37.9359 INCHES ZREF = 15.1875 INCHES  
 SCALE = .0405 SCALE

## PARAMETRIC DATA

ALPHA = 10.000 BOFLAP = -12.000  
 ELEVON = .000 AILRON = .000  
 RUDDER = .000 SFDPRK = .000  
 MACK/L = .000

RUN NO. 43/ 0 RM/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CDP	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-10.130	.48530	.06700	.04700	.48650	-.02075	-.00880	.02410	.20500	.06160	.02290
.200	-5.100	.47910	.07330	.05130	.48450	-.01403	-.00480	.01230	.10500	.06130	.01903
.200	-.020	.47160	.07670	.05490	.47770	-.00930	-.00140	.00020	.00400	.05090	.01775
.200	5.010	.47560	.07180	.05150	.48070	-.01475	.00160	-.01120	-.09900	.06120	.01971
.200	10.100	.48370	.06360	.04530	.48730	-.02439	.00600	-.02320	-.20500	.06170	.02403
GRADIENT	-.01035	-.00002	-.00015	.00002	-.00036	-.00007	.00063	-.00232	-.02016	-.00001	.00007

## REFERENCE DATA

SREF = 4.4119 24.171 INCHES  
 LREF = 19.2299 INCHES TREF = 43.5974 INCHES  
 BREF = 37.9359 INCHES ZREF = 15.1875 INCHES  
 SCALE = .0405 SCALE

## PARAMETRIC DATA

BETA = .000 BOFLAP = -12.000  
 ELEVON = .000 AILRON = .000  
 RUDDER = .000 SFDPRK = .000  
 MACK/L = .730

QAG2 B26C9 F8J49M16E26V85X10

(R04044) ( 09 NOV 73 )

RUN NO. 44/ 0 RM/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	ALPHA	CL	CDP	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-4.170	.25960	.04610	.03750	-.28230	.02711	-.00250	.00090	.00900	.07040	.01634
.200	-2.040	-.16140	.03670	.03670	-.16270	.03095	-.00240	.00070	.00800	.07390	.01720
.200	-1.070	-.11620	.03420	.03930	-.11680	.03206	-.00230	.00070	.00700	.07760	.01709
.200	.020	-.06350	.03180	.03960	-.06350	.03182	-.00230	.00060	.00800	.06810	.01749
.200	1.020	-.01370	.03080	.04240	-.01310	.03113	-.00220	.00060	.00700	.16310	.01736
.200	2.070	.03440	.03050	.04030	.03550	.02928	-.00220	.00050	.00700	.02330	.01733
.200	4.070	.13150	.03250	.04170	.13350	.02315	-.00220	.00040	.00800	.05370	.01739
.200	6.160	.23250	.03760	.04220	.23520	.01250	-.00200	.00060	.00700	.05860	.01812
.200	8.220	.33510	.04830	.04250	.33860	-.02309	-.00210	.00070	.00700	.06050	.01806
.200	10.350	.44210	.06440	.04270	.44650	-.01600	-.00190	.00060	.00600	.06160	.01934
.200	12.500	.55620	.09130	.04150	.56470	-.03176	-.00110	.00040	.00600	.06250	.01892
.200	14.490	.67180	.12370	.03920	.68140	-.04830	-.00110	.00040	.00300	.06340	.02049
.200	16.610	.78800	.16650	.03750	.80270	-.06567	-.00100	.00010	.00400	.06370	.02049
.200	18.690	.90040	.21330	.03620	.92230	-.08476	-.00080	.00040	.00300	.06370	.02049
.200	20.770	1.02320	.28940	.02460	1.05930	-.09222	.00680	.00210	.00300	.06430	.02049
.200	22.850	1.11390	.36290	.02330	1.16710	-.09995	.00960	.00450	-.01600	.06440	.02049
.200	24.890	1.14420	.41510	.03780	1.21260	-.10316	.00730	.00190	-.00900	.06490	.02049
.200	26.900	1.14920	.46940	.04270	1.23730	-.10137	.00530	-.00070	-.00300	.06390	.02049
.200	28.900	1.13710	.52920	.05060	1.25130	-.08640	.00160	.00460	-.01200	.06370	.02049
.200	31.030	1.14640	.59660	.06340	1.26990	-.07980	.00120	.00380	-.00900	.06340	.02049
GRADIENT	.04746	-.00163	-.00049	.00049	.04805	-.00046	.00004	-.00006	-.00014	-.00150	.00011

Q462 B26C9 F8J46W16E26V0R5X10

(RDND45) ( 09 NOV 73 )

## REFERENCE DATA

SREF = 4.4119 SQ.FT. XREF = 43.5974 INCHES  
 LREF = 19.2299 INCHES YREF = .0000 INCHES  
 BREF = 37.9359 INCHES ZREF = 15.1875 INCHES  
 SCALE = .0405 SCALE

RUN NO. 45/ 0 RM/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CLW	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-10.110	-.03190	.03060	-.05190	.01931	-.01060	.00710	.00500	.08700	.01879	
.200	-5.385	-.03730	.03450	-.03730	.02872	-.00720	.00490	.11000	.08730	.01661	
.200	-0.010	-.03290	.03970	-.06400	.03232	-.00220	.00070	.00900	.08800	.01693	
.200	5.010	-.06290	.03550	-.06290	.02770	.00330	-.00360	-.09400	.08600	.01744	
.200	10.070	-.05470	.02940	-.05470	.01726	.00460	-.00730	-.19700	.08500	.01903	
GRADIENT	-.00056	-.00010	.00010	-.00056	-.00010	.00104	-.00084	-.02320	-.00013	.00058	

## PARAMETRIC DATA

ALPHA = .000 BDFLAP = -12.000  
 ELEVON = .000 AILRON = .000  
 RUDDER = .000 SPDBRK = .000  
 MACX/L = .730

Q462 B26C9 F8J46W16E26V0R5X10

(RDND46) ( 09 NOV 73 )

## REFERENCE DATA

SREF = 4.4119 SQ.FT. XREF = 43.5974 INCHES  
 LREF = 19.2299 INCHES YREF = .0000 INCHES  
 BREF = 37.9359 INCHES ZREF = 15.1875 INCHES  
 SCALE = .0405 SCALE

RUN NO. 46/ 0 RM/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CLW	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-10.090	.44920	.03730	.43220	-.02398	-.01290	.02310	.20600	.06240	.02193	
.200	-5.070	.44460	.06270	.44860	-.01776	-.00710	.01190	.10600	.06200	.01845	
.200	.070	.43940	.06500	.44400	-.01457	-.00190	.00040	.00700	.06160	.01829	
.200	5.060	.44110	.06140	.44490	-.01037	.00270	-.01070	-.07100	.06190	.01915	
.200	10.120	.44560	.05430	.44830	-.00630	.00690	-.00240	-.19600	.06240	.02303	
GRADIENT	-.00035	-.00013	.00005	-.00037	-.00006	.00097	-.00224	-.01949	-.00001	.00007	

## PARAMETRIC DATA

ALPHA = 10.000 BDFLAP = -12.000  
 ELEVON = .000 AILRON = .000  
 RUDDER = .000 SPDBRK = .000  
 MACX/L = .730

DATE 30 APR 74

TABULATED SOURCE DATA - 0472

0462 826C9 F8J51W16E26V8R5K10

(R04047) ( 09 NOV 73 )

REFERENCE DATA

SDP = 4.4119 SA.FT. ZMRP = 43.5974 INCHES  
LMD = 19.2299 INCHES ZMRP = .0000 INCHES  
BDF = 37.9359 INCHES ZMRP = 15.1875 INCHES  
SCALE = .0405 SCALE

BETA =  
ELEVON =  
RUDDER =  
NACK/L =

.000 BDFLAP = -12.000  
.000 AILRON = .000  
.000 SPDBRK = .000  
.730

PARAMETRIC DATA

RUN NO. 47/ 0 EN/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	ALPHA	CL	CDP	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-4.160	-.23460	.04400	.03410	-.25710	.02359	-.00278	.00000	.00000	.07010	.01622
.200	-8.070	-.19950	.03590	.03590	-.16070	.03014	-.00260	.00000	.00700	.07330	.01653
.200	-11.000	-.11000	.03320	.03990	-.11050	.03122	-.00250	.00000	.00700	.07710	.01695
.200	-14.000	-.08140	.03170	.03700	-.06190	.03170	-.00250	.00000	.00700	.08730	.01662
.200	-17.000	-.02760	.03000	.03760	-.00720	.03021	-.00240	.00000	.00600	.25500	.01737
.200	-20.000	.03970	.03020	.03650	.04000	.02862	-.00240	.00000	.00600	.03560	.01710
.200	-23.000	.13640	.03240	.03960	.14640	.02244	-.00200	.00000	.00600	.05480	.01751
.200	-26.000	.23710	.03800	.03990	.23960	.01229	-.00190	.00000	.00600	.05970	.01720
.200	-29.000	.34060	.04020	.04040	.34420	-.00126	-.00190	.00000	.00700	.06580	.01790
.200	-32.000	.44300	.04490	.04050	.44750	-.01550	-.00190	.00000	.00700	.06180	.01764
.200	-35.000	.55550	.06840	.03990	.58150	-.03311	-.00160	.00000	.00600	.06250	.01873
.200	-38.000	.67330	.12260	.03650	.80660	-.05020	-.00090	.00000	.00300	.06310	.01967
.200	-41.000	.79240	.16570	.03440	.92230	-.06804	-.00030	.00000	.00200	.06330	.02094
.200	-44.000	.90160	.21300	.02880	1.05750	-.08695	-.00010	.00000	.00100	.06380	.02211
.200	-47.000	1.02200	.28730	.02770	1.15630	-.09375	.00000	.00000	.00000	.06440	.02260
.200	-50.000	1.10540	.35460	.02700	1.21480	-.10315	.00990	.00580	-.02000	.06430	.02960
.200	-53.000	1.14730	.41370	.02630	1.23510	-.10769	.00990	.00440	-.01100	.06410	.03527
.200	-56.000	1.14630	.47050	.02500	1.23510	-.09940	.00350	.00110	-.00300	.06400	.04317
.200	-59.000	1.14810	.53520	.04980	1.26370	-.08734	.00030	.00370	-.00700	.06370	.04882
.200	-62.000	1.15340	.59560	.06180	1.29550	-.06237	.00060	.00130	-.00500	.06340	.05481
.200	-65.000	.04779	-.00141	.00768	.04834	-.00037	.00000	.00000	-.00002	.00000	.00000

(R04048) ( 09 NOV 73 )

0462 826C9 F8J51W16E26V8R5K10

PARAMETRIC DATA

REFERENCE DATA

SDP = 4.4119 SA.FT. ZMRP = 43.5974 INCHES  
LMD = 19.2299 INCHES ZMRP = .0000 INCHES  
BDF = 37.9359 INCHES ZMRP = 15.1875 INCHES  
SCALE = .0405 SCALE

BETA =  
ELEVON =  
RUDDER =  
NACK/L =

.000 BDFLAP = -12.000  
.000 AILRON = .000  
.000 SPDBRK = .000  
.730

RUN NO. 48/ 0 EN/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CDP	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-10.130	-.03620	.01650	.02870	-.03820	.01653	.00000	.00750	.01400	.03290	.01969
.200	-5.060	-.05160	.02760	.03250	-.05160	.02768	-.00140	.00480	.01100	.05540	.01716
.200	.010	-.05650	.03170	.03660	-.05650	.03171	-.00240	.00060	.00900	.08820	.01665
.200	5.050	-.05590	.02610	.03340	-.05590	.02610	-.00230	-.00360	-.00900	.05710	.01851
.200	10.12	-.04350	.01600	.02830	-.04350	.01600	-.00210	-.00740	-.02100	.08910	.01977
.200	GRADIENT	-.00043	-.00015	.00003	-.00043	-.00015	-.00009	-.00085	-.02034	-.00013	.00013



QAG2 826C9 F8J5J1U16E26V0R5X10

(RDJ49) ( 09 NOV 73 )

## REFERENCE DATA

MEET = 4.4119 INCHES  
 LAET = 19.2399 INCHES  
 BLET = 37.9359 INCHES  
 SCALE = .0005 INCHES

## PARAMETRIC DATA

ALPHA = 10.000  
 ELEVON = .000  
 RUDDER = .000  
 NACA/L = .730

RUN NO. 49/ 0 RM/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CD	CLM	CM	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-10.100	.45590	.05760	.03060	.45680	-.02520	-.00910	.02050	.20900	.06270	.02097
.200	-5.070	.44980	.06230	.03640	.45370	-.01349	-.00300	.01070	.10800	.06220	.01883
.200	.010	.44730	.06520	.04090	.45170	-.01628	-.00190	.00010	.01000	.06180	.01829
.200	5.040	.44750	.06090	.03780	.45120	-.02052	-.00100	-.00330	-.09100	.06215	.01968
.200	10.110	.45120	.05280	.03240	.45340	-.02916	.00190	-.01900	-.19600	.06255	.02324
GRADIENT	-.00223	-.00014	-.00014	.00014	-.00025	-.00010	.00020	-.00198	-.01968	-.00001	.00008

## REFERENCE DATA

MEET = 4.4119 INCHES  
 LAET = 19.2399 INCHES  
 BLET = 37.9359 INCHES  
 SCALE = .0005 INCHES

## PARAMETRIC DATA

BETA = .000  
 ELEVON = .000  
 RUDDER = .000  
 NACA/L = .730

QAG2 826C9 F8J5J1U16E26V0R5X10

(RDJ49) ( 09 NOV 73 )

RUN NO. 50/ 0 RM/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	ALPHA	CL	CD	CLM	CM	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-1.060	-.17900	.04000	.02110	-.17840	.02735	-.00190	.00060	.00500	.06950	.01819
.200	-2.020	-.07960	.03567	.02160	-.08080	.03283	-.00200	.00060	.00500	.07500	.01873
.200	.070	.02230	.03550	.02230	.02240	.05550	-.00210	.00030	.00600	.02850	.01860
.200	1.060	.06660	.03630	.02260	.06920	.03506	-.00220	.00030	.00600	.05310	.01864
.200	2.040	.11870	.03690	.02290	.12070	.03458	-.00220	.00040	.00500	.05810	.01782
.200	4.250	.21880	.04510	.02350	.22150	.02976	-.00250	-.00030	.00800	.06120	.01850
.200	6.250	.31210	.05610	.02440	.31640	.02190	-.00270	-.00040	.00700	.06230	.01758
.200	8.470	.41940	.07250	.02490	.42350	.00995	-.00280	-.00060	.00800	.06310	.01777
.200	10.390	.51100	.09290	.02500	.51940	-.00076	-.00210	-.00030	.00600	.06340	.01851
.200	12.470	.61440	.12150	.02330	.62820	-.01420	-.00230	-.00050	.00700	.06380	.02005
.200	14.510	.71030	.15780	.01960	.72720	-.02532	-.00200	-.00060	.00500	.06420	.02005
.200	16.560	.79960	.19680	.01920	.82270	-.03967	-.00230	-.00030	.00600	.06430	.01971
.200	18.600	.88590	.23940	.01920	.91590	-.05719	-.00090	.00130	.00600	.06440	.02322
.200	20.720	.96170	.29420	.01600	1.00360	-.06524	-.00060	.00120	.00600	.06460	.02714
.200	22.820	.99910	.37070	.02360	1.06470	-.04593	.01760	.00420	.00600	.06450	.03469
.200	24.800	1.03660	.43960	.03250	1.09820	-.02316	.00240	.00290	.00600	.06410	.03892
.200	26.800	1.06670	.48420	.04740	1.11690	-.02186	.00180	.00430	.00600	.06360	.04820
.200	28.840	1.09070	.53640	.05430	1.13280	-.02262	.00190	.00180	.00600	.06340	.05370
.200	30.900	1.06440	.58440	.05870	1.21350	-.04530	.00200	.00200	.00600	.06340	.05815
GRADIENT	.04754	.00059	.00059	.00029	.04815	.00027	-.00007	-.00011	.00029	-.00169	-.00005

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TABULATED SOURCE DATA - 0A72

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0A62 B26C9 F0J52M16E26V0R5X10

(EDW051) ( 09 NOV 73 )

## REFERENCE DATA

SREF = 4.4119 SQ.FT. YMRP = 43.5974 INCHES  
 LREF = 19.2299 INCHES YMRP = .0000 INCHES  
 BREF = 37.9359 INCHES ZMRP = 15.1875 INCHES  
 SCALE = .0405 SCALE

## PARAMETRIC DATA

ALPHA = .000 BDFLAP = -12.000  
 ELEVON = .000 AIRCON = .000  
 RUDDER = .000 SFDPRK = .000  
 MACX/L = .730

RUN NO. 51/ 0 RN/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CLM	CLN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-10.090	.03360	.02420	.03390	.02422	-.01000	.01120	.19400	.05060	.01994
.200	-5.060	.02780	.03230	.02780	.03229	-.00670	.00680	.10200	.04180	.01834
.200	.000	.02090	.03560	.02100	.03559	-.00200	.00040	.00600	.02630	.01835
.200	5.030	.02350	.03030	.02360	.03032	.00310	-.00630	-.00800	.03820	.02062
.200	10.100	.03300	.02060	.03300	.02067	.00780	-.01220	-.18300	.05390	.02236
GRADIENT	-.00043	-.00020	-.00024	-.00042	-.00019	.00097	-.00130	-.01883	-.00036	.00023

0A62 B26C9 F0J52M16E26V0R5X10

(EDW052) ( 09 NOV 73 )

## REFERENCE DATA

SREF = 4.4119 SQ.FT. YMRP = 43.5974 INCHES  
 LREF = 19.2299 INCHES YMRP = .0000 INCHES  
 BREF = 37.9359 INCHES ZMRP = 15.1875 INCHES  
 SCALE = .0405 SCALE

## PARAMETRIC DATA

ALPHA = 10.000 BDFLAP = -12.000  
 ELEVON = .000 AIRCON = .000  
 RUDDER = .000 SFDPRK = .000  
 MACX/L = .730

RUN NO. 52/ 0 RN/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CLM	CLN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-10.080	.00890	.08180	.01720	-.01076	-.01250	.02460	.19000	.06390	.02280
.200	-5.050	.01340	.08060	.02210	-.00506	-.00720	.01250	.09900	.06360	.01926
.200	.000	.01160	.09280	.02560	-.00057	-.00190	-.00010	.00600	.06330	.01866
.200	5.030	.01320	.08090	.02020	-.00466	.00270	-.01270	-.06700	.06370	.01973
.200	10.110	.01030	.07900	.01260	-.01385	.00770	-.02480	-.17900	.06430	.02559
GRADIENT	-.00002	-.00003	-.00019	-.00001	.00004	.00098	-.00250	-.01845	.00001	.00005

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TABULATED SOURCE DATA - OA72

PAGE 30

OA62 B26C9 F8J53M116E26V8R5X10

(RDW053) ( 09 NOV 73 )

## REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES  
 LREF = 19.2299 INCHES YMRP = .0000 INCHES  
 BREF = 37.9359 INCHES ZMRP = 15.1875 INCHES  
 SCALE = .0405 SCALE

RUN NO. 53/ 0 RN/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

## PARAMETRIC DATA

BETA = .000 BDFLAP = -12.000  
 ELEVON = .000 AILRON = .000  
 RUDDER = .000 SPD8RK = .000  
 NACX/L = .730

MACH	ALPHA	CL	CD	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-4.110	-.17170	.03930	.01700	-.17400	.02690	-.00190	.00070	.00300	.06880	.01805
.200	-1.990	-.07340	.03580	.01770	-.07460	.03329	-.00200	.00050	.00400	.07390	.01805
.200	-.980	-.02490	.03470	.01780	-.02550	.03427	-.00220	.00020	.00500	.09090	.01857
.200	.010	.02300	.03520	.01880	.02300	.03528	-.00220	.00030	.00400	.03510	.01834
.200	1.050	.07220	.03570	.01950	.07280	.03443	-.00230	.00020	.00500	.05550	.01907
.200	2.180	.12730	.03820	.02010	.12870	.03337	-.00230	.00000	.00500	.05940	.01870
.200	4.200	.22170	.04470	.02080	.22440	.02837	-.00240	.00010	.00500	.06180	.01832
.200	6.280	.31840	.05530	.02160	.32260	.02017	-.00250	.00020	.00600	.06270	.01855
.200	8.310	.41590	.07140	.02260	.42180	.01032	-.00220	.00030	.00500	.06320	.01746
.200	10.370	.51410	.09220	.02230	.52230	-.00178	-.00230	.00000	.00500	.06360	.01867
.200	12.470	.61590	.11980	.02140	.62690	-.01596	-.00230	-.00060	.00500	.06390	.01954
.200	14.530	.70970	.15400	.01840	.72690	-.02765	-.00230	.00120	.00600	.06420	.02021
.200	16.580	.80190	.19470	.01640	.82420	-.04228	-.00210	.00080	.00500	.06440	.01983
.200	18.700	.89180	.24170	.01560	.92220	-.05695	-.00260	.00120	.00700	.06450	.02147
.200	20.720	.96990	.29330	.01400	1.01100	-.06890	-.00120	.00270	.00400	.06470	.02529
.200	22.780	1.00280	.36790	.01280	1.06710	-.04906	.00130	.01380	-.04100	.06460	.03336
.200	24.800	1.01460	.43930	.03240	1.10530	-.02695	.00140	.00190	-.00800	.06410	.04051
.200	26.810	1.00790	.48350	.04430	1.11770	-.02319	.00180	.00260	-.01000	.06370	.04713
.200	28.890	1.02250	.53500	.05420	1.15380	-.02453	.00230	.00460	-.01900	.06340	.05336
.200	30.960	1.06340	.58380	.05820	1.21230	-.04649	.00190	.00290	-.01600	.06340	.05838
GRADIENT	.04751	.00049	.00063	.00049	.04812	.00014	-.00006	-.00010	.00023	-.00208	.00007

OA62 B26C9 F8J53M116E26V8R5X10

(RDW054) ( 09 NOV 73 )

## REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES  
 LREF = 19.2299 INCHES YMRP = .0000 INCHES  
 BREF = 37.9359 INCHES ZMRP = 15.1875 INCHES  
 SCALE = .0405 SCALE

RUN NO. 54/ 0 RN/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

## PARAMETRIC DATA

ALPHA = .000 BDFLAP = -12.000  
 ELEVON = .000 AILRON = .000  
 RUDDER = .000 SPD8RK = .000  
 NACX/L = .730

MACH	BETA	CL	CD	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-10.080	.03810	.02500	.01170	.03810	.02503	.00000	.01120	.01500	.05390	.01886
.200	-5.050	.02940	.03220	.01450	.02940	.03221	-.00140	.00660	.01000	.04700	.01812
.200	.000	.02290	.03500	.01890	.02300	.03506	-.00190	.00040	.00500	.03480	.01865
.200	5.060	.02610	.03020	.01460	.02610	.03027	-.00200	.00660	-.00900	.04450	.02054
.200	10.110	.03830	.02090	.00880	.03830	.02093	-.00210	.01220	-.01870	.05660	.02239
GRADIENT	-.00033	-.00033	-.00020	.00001	-.00033	-.00019	-.00006	-.00131	-.01869	-.00025	.00024

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TABULATED SOURCE DATA - QM72

PAGE 31

Q462 B26C9 F8J5J04116226V0R5X10

(RDW055) ( 09 NOV 73 )

## REFERENCE DATA

SEEF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES  
 LREF = 19.2299 INCHES YMRP = .0000 INCHES  
 BREP = 37.9359 INCHES ZMRP = 15.1875 INCHES  
 SCALE = .0405 SCALE

## PARAMETRIC DATA

ALPHA = 10.000 BDFLAP = -12.000  
 ELEVON = .000 AILRON = .000  
 RUDDER = .000 SPDBRK = .000  
 NACX/L = .730

RUN NO. 55/ 0 RN/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CLM	CLN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-10.100	.51600	.01550	.52230	-.01208	-.00580	.02240	.19200	.06410	.02152
.200	-5.040	.51510	.02020	.52250	-.00620	-.00370	.01150	.09800	.06370	.01914
.200	.010	.51200	.02260	.52030	-.00146	-.00210	-.00010	.00700	.06360	.01840
.200	5.050	.51510	.02840	.52260	-.00559	-.00120	-.01190	-.08500	.06390	.01944
.200	10.110	.51470	.01120	.52070	-.01383	.00080	-.02320	-.17900	.06440	.02356
GRADIENT	-.00070	.00006	-.00018	.00001	.00006	.00025	-.00231	-.01810	.06002	.00003

Q462 B26C9 F8J5J04116226V0R5X10

(RDW056) ( 09 NOV 73 )

## REFERENCE DATA

SEEF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES  
 LREF = 19.2299 INCHES YMRP = .0000 INCHES  
 BREP = 37.9359 INCHES ZMRP = 15.1875 INCHES  
 SCALE = .0405 SCALE

## PARAMETRIC DATA

BETA = .000 BDFLAP = -12.000  
 ELEVON = .000 AILRON = .000  
 RUDDER = .000 SPDBRK = .000  
 NACX/L = .240

RUN NO. 56/ 0 RN/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	ALPHA	CL	CLM	CLN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-4.230	-.25130	.01590	-.25400	.02653	-.00240	.00090	.00100	.06750	.01656
.200	-2.100	-.19270	.02270	-.15390	.02864	-.00210	.00030	.00500	.07060	.01706
.200	-1.040	-.10010	.02560	-.10260	.02961	-.00210	.00020	.00500	.07460	.01661
.200	-.010	-.04710	.02840	-.04710	.02950	-.00210	.00010	.00600	.08730	.01698
.200	1.010	.00480	.03150	.00530	.02810	-.00200	.00010	.00500	-.15070	.01759
.200	2.060	.05970	.03470	.06070	.02637	-.00200	.00010	.00600	.04410	.01740
.200	4.120	.16080	.03990	.16270	.02037	-.00190	.00030	.00400	.05610	.01764
.200	6.230	.26810	.04310	.27080	.01027	-.00180	.00040	.00300	.05900	.01764
.200	8.300	.37600	.04940	.37970	-.00147	-.00180	.00010	.00400	.06040	.01788
.200	10.470	.48990	.05560	.49530	-.01591	-.00180	.00000	.00400	.06100	.01820
.200	12.440	.59170	.06190	.59910	-.03082	-.00150	.00010	.00200	.06140	.01908
.200	14.520	.69630	.06830	.70750	-.04541	-.00140	-.00020	.00300	.06160	.01915
.200	16.610	.80090	.07480	.81740	-.06146	-.00130	-.00030	.00300	.06180	.02062
.200	18.760	.90280	.08140	.92620	-.08039	-.00150	.00000	.00500	.06190	.02177
.200	20.750	.98310	.08190	1.01590	-.09347	-.00160	.00010	.00600	.06220	.02329
.200	22.830	1.05360	.08490	1.10380	-.09338	.00670	.00110	-.00900	.06230	.02730
.200	24.860	1.10010	.09300	1.16740	-.09742	.00770	.00390	-.01900	.06220	.03261
.200	26.950	1.12370	.09860	1.21580	-.08831	.00440	.00460	-.01400	.06220	.04041
.200	28.910	1.13360	.10880	1.25290	-.07615	.00190	-.00040	-.00200	.06200	.04189
.200	30.940	1.14620	.12090	1.29110	-.07564	.00090	.00020	-.00200	.06170	.04723
GRADIENT	.04976	-.00154	.00288	.00030	-.00069	.00005	-.00007	.00032	-.00736	.00014

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TABULATED SOURCE DATA - 0472

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0462 B26C9 F8J5DM16E26V0R5X10

(RDW057) ( 09 NOV 73 )

## REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES  
 LREF = 19.2299 INCHES YMRP = .0000 INCHES  
 BREF = 37.9359 INCHES ZMRP = 15.1075 INCHES  
 SCALE = .0405 SCALE

## PARAMETRIC DATA

ALPHA = .000 BDFLAP = -12.000  
 ELEVON = .000 AILRON = .000  
 RUDDER = .000 SPDBRK = .000  
 MACX/L = .240

RUN NO. 57/ 0 RN/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CLM	CLN	CAF	CYN	CBL	CY	XCP/L	CAB
.200	-10.100	-.02400	.01690	.01850	-.02400	-.00860	.00380	.22300	.09360	.01877
.200	-5.070	-.03840	.02480	.02350	-.03840	-.00580	.00280	.11900	.08770	.01721
.200	.000	-.04440	.02950	.02860	-.04440	-.00200	.00030	.00600	.08890	.01716
.200	5.040	-.04330	.02380	.02360	-.04330	.00210	-.00250	-.10600	.08520	.01834
.200	10.130	-.03070	.01210	.01690	-.03070	.00670	-.00420	-.22400	.08550	.01996
GRADIENT	-.00049	-.02010	.00001	-.00049	-.00009	.00078	-.00052	-.02226	-.00025	.00011

0462 B26C9 F8J5DM16E26V0R5X10

(RDW058) ( 09 NOV 73 )

## REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES  
 LREF = 19.2299 INCHES YMRP = .0000 INCHES  
 BREF = 37.9359 INCHES ZMRP = 15.1075 INCHES  
 SCALE = .0405 SCALE

## PARAMETRIC DATA

ALPHA = 10.000 BDFLAP = -12.000  
 ELEVON = .000 AILRON = .000  
 RUDDER = .000 SPDBRK = .000  
 MACX/L = .240

RUN NO. 58/ 0 RN/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CLM	CLN	CAF	CYN	CBL	CY	XCP/L	CAB
.200	-10.100	.46990	.06370	.49370	-.02351	-.00790	.02130	.21700	.06160	.02216
.200	-5.060	.48660	.07030	.49140	-.01836	-.00500	.01120	.11000	.06130	.01908
.200	.000	.48230	.07390	.48780	-.01407	-.00170	.00040	.00400	.06100	.01761
.200	5.070	.48520	.06930	.48970	-.01907	.00110	-.01020	-.10200	.06120	.01949
.200	10.130	.48750	.06160	.49060	-.02715	.00460	-.02120	-.21000	.06170	.02422
GRADIENT	-.00014	-.00010	.00005	-.00017	-.00007	.00060	-.00211	-.02093	-.00001	.00004

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TABULATED SOURCE DATA - QAT2

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QAT2 B26C9 F8J54016E26V083X10

(EDV059) ( 09 NOV 73 )

## REFERENCE DATA

SEEP = 4.4119 SQ.FT. XMRP = 43.5974 INCHES  
 LEFP = 19.2299 INCHES YMRP = .0000 INCHES  
 BEFP = 37.9399 INCHES ZMRP = 15.1875 INCHES  
 SCALE = .0005 SCALE

## PARAMETRIC DATA

BETA = .000 BDFLAP = -12.000  
 ELEVON = .000 AILEON = .000  
 RUDDER = .000 SPDRK = .000  
 NACH/L = .240

RUN NO. 59/ 0 RAU/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

ALPHA	CL	CD	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-4.180	-.29310	.04560	-.25570	.02708	-.00220	.00040	.00500	.56740	.01627
.200	-2.060	-.14870	.03590	-.14990	.03050	-.00220	.00020	.00600	.57060	.01695
.200	-1.060	-.07040	.02490	-.10100	.03100	-.00210	.00020	.00600	.57410	.01714
.200	-.020	-.04750	.02790	-.04750	.03531	-.00210	.00030	.00600	.58680	.01714
.200	1.020	.00540	.02940	.00600	.02936	-.00200	.00020	.00500	-.12450	.01748
.200	2.020	.05830	.02970	.05930	.02771	-.00190	.00030	.00500	.04425	.01716
.200	4.100	.13220	.03370	.05930	.02140	-.00200	.00020	.00600	.05620	.01719
.200	6.230	.27060	.03900	.16410	.01168	-.00190	.00030	.00400	.05320	.01725
.200	8.240	.37320	.04440	.27350	-.00049	-.00200	.00050	.00500	.06040	.01762
.200	10.400	.48490	.04920	.37700	-.01463	-.00180	.00010	.00400	.06100	.01819
.200	12.460	.59120	.05590	.49030	-.02927	-.00160	-.00030	.00300	.06400	.01830
.200	14.490	.69410	.06920	.59950	-.04398	-.00140	-.00030	.00200	.06160	.01898
.200	16.620	.80210	.07530	.70550	-.06045	-.00120	-.00050	.00400	.06160	.02039
.200	18.670	.89480	.08180	.81750	-.07763	-.00160	.00010	.00400	.06190	.02104
.200	20.720	.99220	.08650	.91830	-.09461	-.00130	.00010	.00300	.06210	.02290
.200	22.830	1.06000	.34320	1.02500	-.09461	-.00130	.00010	.00300	.06230	.02318
.200	24.890	1.09910	.40680	1.11590	-.09375	.00080	.00030	.00500	.06230	.03411
.200	26.860	1.11960	.47180	1.16820	-.08508	.00420	.00430	-.01500	.06190	.03876
.200	28.920	1.13940	.54070	1.21200	-.07778	.00070	-.00010	-.00300	.06190	.04222
.200	30.980	1.15220	.60050	1.25880	-.07792	.00000	-.00030	.00050	.06190	.04720
GRADIENT		.05023	-.00153	.05077	-.00069	.00003	-.00003	.00002	-.00000	.00010

DATE 30 APR 74

TABULATED SOURCE DATA - 0472

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0462 826C9 F8J55M116E26V0R5X10

(RDWJ261) ( 09 NOV 73 )

## REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES  
 LREF = 19.2299 INCHES YMRP = .0000 INCHES  
 BREF = 37.9359 INCHES ZMRP = 15.1875 INCHES  
 SCALE = .0405 SCALE

## PARAMETRIC DATA

BETA = .000 BDFLAP = -12.000  
 ELEVON = .000 AILRON = .000  
 RUDDER = .000 SPDRK = .000  
 NACX/L = .240

RUN NO. 60/ 0 RM/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	ALPHA	CL	CD	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-4.200	-26900	.04990	.00700	-.27190	.03006	-.00240	.00080	.00400	.06610	.01640
.200	-2.100	-16820	.03850	.01410	-.16950	.03228	-.00220	.00010	.00600	.06820	.01679
.200	-1.080	-11360	.03480	.01730	-.11420	.03264	-.00210	.00010	.00500	.07070	.01727
.200	-.060	-.06030	.03270	.02030	-.06040	.03264	-.00200	.00020	.00500	.07760	.01717
.200	.980	-.00630	.03080	.02390	-.00580	.03098	-.00200	.00040	.00500	.21680	.01765
.200	2.080	.04400	.02980	.02690	.04500	.02818	-.00200	.00030	.00500	.04310	.01728
.200	4.150	.15100	.03330	.03370	.15300	.02230	-.00200	.00010	.00500	.05710	.01739
.200	6.210	.25450	.04010	.04000	.25740	.01241	-.00200	.00010	.00500	.05940	.01769
.200	8.260	.36000	.03220	.04520	.36380	-.00501	-.00210	-.00010	.00600	.06060	.01723
.200	10.340	.46930	.07040	.05210	.47430	-.01490	-.00180	-.00020	.00500	.06110	.01790
.200	12.390	.57390	.09620	.05870	.58110	-.02921	-.00180	-.00020	.00500	.06140	.01804
.200	14.510	.68430	.12950	.06590	.69490	-.04659	-.00160	-.00030	.00400	.06170	.01868
.200	16.620	.78670	.16790	.07120	.80170	-.06448	-.00160	-.00060	.00400	.06190	.02014
.200	18.690	.88980	.21290	.07960	.91110	-.08355	-.00150	-.00130	.00400	.06200	.02120
.200	20.740	.98710	.26390	.08410	1.01660	-.10276	-.00150	-.00160	.00600	.06210	.02335
.200	22.810	1.06750	.33800	.08490	1.11590	-.12334	.00600	.00090	.00900	.06240	.02760
.200	24.880	1.12340	.41420	.08870	1.19350	-.09703	.00600	.00090	.00300	.06240	.03229
.200	26.910	1.14820	.47380	.10170	1.23840	-.09714	.00260	.00120	.00600	.06210	.03519
.200	28.950	1.16910	.53950	.11130	1.28420	-.09398	.00230	-.00140	.00100	.06200	.04283
.200	30.970	1.17620	.59880	.12820	1.31670	-.09187	.00220	-.00100	-.00200	.06160	.04856
GRADIENT		.05044	-.00200	.00317	.05102	-.00094	.00005	-.00005	.00014	.00125	.00012

0462 826C9 F8J55M116E26V0R5X10

(RDWJ261) ( 09 NOV 73 )

## REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES  
 LREF = 19.2299 INCHES YMRP = .0000 INCHES  
 BREF = 37.9359 INCHES ZMRP = 15.1875 INCHES  
 SCALE = .0405 SCALE

## PARAMETRIC DATA

ALPHA = .000 BDFLAP = -12.000  
 ELEVON = .000 AILRON = .000  
 RUDDER = .000 SPDRK = .000  
 NACX/L = .240

RUN NO. 61/ 0 RM/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CD	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-10.120	-.04710	.01800	.01200	-.04720	.01799	-.00800	.00140	.22700	.07460	.01873
.200	-5.060	-.05430	.02810	.01590	-.05460	.02813	-.00590	.00210	.11800	.07590	.01696
.200	.000	-.05810	.03240	.02030	-.05820	.03237	-.00200	.00020	.00700	.07800	.01716
.200	5.060	-.05820	.02700	.01640	-.05820	.02705	.00250	-.00180	-.00100	.07350	.01822
.200	10.110	-.04710	.01800	.00950	-.04710	.01600	.00650	-.00300	-.22000	.07260	.01938
GRADIENT		-.00037	-.00011	.00005	-.00036	-.00011	.00083	-.00038	-.02199	-.00004	.00012

DATE 30 APR 74

TABULATED SOURCE DATA - QM72

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QAM2 B26C9 F8J55W11E26V8R5X10

(RDM062) ( 09 NOV 73 )

## REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES  
 LREF = 19.2299 INCHES YMRP = .0000 INCHES  
 BREF = 37.9359 INCHES ZMRP = 15.1875 INCHES  
 SCALE = .0405 SCALE

## PARAMETRIC DATA

ALPHA = 10.000 BDFLAP = -12.000  
 ELEVON = .000 AILRON = .000  
 RUDDER = .000 SPDRK = .000  
 NACX/L = .240

RUN NO. 62/ 0 RV/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CLM	CLN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-10.120	.47440	.04320	.47810	-.02299	-.00620	.02110	.21200	.06180	.02184
.200	-3.070	.47450	.04780	.47910	-.01807	-.00510	.01080	.10800	.06150	.01900
.200	.000	.46760	.07110	.47260	-.01401	-.00180	.00000	.00600	.06110	.01761
.200	5.060	.46910	.06660	.47340	-.01873	.00100	-.01900	-.09900	.06140	.01943
.200	10.120	.47230	.05840	.47320	-.02728	.00490	-.02110	-.20600	.06190	.02432
GRADIENT	-.00053	-.00016	.00005	-.00056	-.00006	.00060	-.00205	-.02043	-.00001	.00004

QAM2 B26C9 F8J55W11E26V8R5X10

(RDM063) ( 09 NOV 73 )

## REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES  
 LREF = 19.2299 INCHES YMRP = .0000 INCHES  
 BREF = 37.9359 INCHES ZMRP = 15.1875 INCHES  
 SCALE = .0405 SCALE

## PARAMETRIC DATA

BETA = .000 BDFLAP = -12.000  
 ELEVON = .000 AILRON = .000  
 RUDDER = .000 SPDRK = .000  
 NACX/L = .000

RUN NO. 63/ 0 RV/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	ALPHA	CL	CLM	CLN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-4.130	-.25610	.01890	-.25850	.02477	-.00190	.00110	.00500	.06790	.01687
.200	-2.040	-.15480	.02240	-.15590	.02668	-.00170	.00100	.00400	.07550	.01662
.200	-1.020	-.10330	.02410	-.10390	.02950	-.00180	.00090	.00600	.07370	.01686
.200	-.020	-.05520	.02570	-.05520	.02928	-.00170	.00000	.00500	.08230	.01713
.200	1.040	-.00280	.02770	-.00230	.02863	-.00180	.00090	.00500	.49690	.01680
.200	2.060	.04710	.03000	.04810	.02642	-.00170	.00100	.00500	.04220	.01700
.200	4.120	.14560	.03430	.14740	.01951	-.00170	.00070	.00600	.05660	.01774
.200	6.240	.24830	.03700	.25080	.00957	-.00170	.00050	.00500	.05970	.01728
.200	8.370	.35920	.04860	.36240	-.00421	-.00180	.00050	.00600	.06100	.01733
.200	10.390	.46320	.06450	.46720	-.02010	-.00150	.00070	.00500	.06170	.01867
.200	12.440	.56830	.08870	.57410	-.03585	-.00140	.00010	.00500	.06210	.01814
.200	14.510	.68040	.11950	.68860	-.05485	-.00120	.00010	.00400	.06240	.01898
.200	16.610	.79070	.15820	.80300	-.07443	-.00100	.00050	.00300	.06270	.02028
.200	18.710	.89180	.20380	.91010	-.09307	-.00140	.00140	.00400	.06280	.02160
.200	20.760	.99070	.27410	1.02350	-.09498	.00790	.00270	-.01400	.06320	.02547
.200	22.930	1.06250	.33420	1.10900	-.10425	.00750	.00310	-.01400	.06320	.03130
.200	24.690	1.11880	.41090	1.18780	-.09829	.00200	.00250	-.00700	.06340	.03559
.200	26.910	1.14140	.46760	1.22950	-.09980	.00160	.00300	-.00950	.06310	.04140
.200	28.980	1.15540	.53240	1.26870	-.09417	.00030	.00320	-.00950	.06290	.04850
.200	31.040	1.17350	.59820	1.31400	-.09262	.00020	-.00070	.00200	.06260	.05082
GRADIENT	.04880	-.00158	.00126	.04931	-.00061	.00002	-.00004	.00012	.00751	.00010



(RDW064) ( 09 NOV 73 )

0A62 B26C9 F8J56W116E26V0R5X10

## REFERENCE DATA

SREF = 4.4119 SQ.FT. XREF = 43.5974 INCHES  
 LREF = 19.2299 INCHES YREF = .0000 INCHES  
 BREF = 37.9359 INCHES ZREF = 15.1875 INCHES  
 SCALE = .0405 SCALE

## PARAMETRIC DATA

ALPHA = .000 BDFLAP = -12.000  
 ELEVON = .000 AILERON = .000  
 RUDDER = .000 SPDBRK = .000  
 NACX/L = .000

RUN NO. 64/ 0 RV/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CLM	CDF	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-10.090	-.04230	.01570	.01860	-.04280	.01579	-.00080	.00610	.20900	.08120	.01908
.200	-5.090	-.04810	.02590	.02190	-.04810	.02595	-.00590	.00430	.10800	.08190	.01632
.200	.000	-.05290	.02930	.02590	-.05290	.02938	-.00160	.00080	.00700	.08320	.01699
.200	5.090	-.05400	.02410	.02180	-.05400	.02414	.00310	-.00260	-.09700	.08010	.01803
.200	10.120	-.04300	.01360	.01620	-.04300	.01367	.00760	-.00560	-.20400	.07900	.01947
GRADIENT	-.00058	-.00018	-.00001	-.00001	-.00058	-.00018	.00089	-.00568	-.02030	-.00018	.00017

## REFERENCE DATA

SREF = 4.4119 SQ.FT. XREF = 43.5974 INCHES  
 LREF = 19.2299 INCHES YREF = .0000 INCHES  
 BREF = 37.9359 INCHES ZREF = 15.1875 INCHES  
 SCALE = .0405 SCALE

## PARAMETRIC DATA

ALPHA = 10.000 BDFLAP = -12.000  
 ELEVON = .000 AILERON = .000  
 RUDDER = .000 SPDBRK = .000  
 NACX/L = .000

RUN NO. 65/ 0 RV/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CLM	CDF	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-10.090	.46350	.03690	.05690	.46820	-.02754	-.01130	.02310	.20700	.06230	.02140
.200	-5.090	.46170	.04020	.06200	.46530	-.02189	-.00590	.01170	.10500	.06200	.01848
.200	.000	.46090	.04420	.06350	.46520	-.01830	-.00150	.00060	.00600	.06170	.01737
.200	5.090	.46090	.03940	.06090	.46430	-.02289	.00220	-.01030	-.09500	.06200	.01900
.200	10.100	.46410	.03450	.05260	.46600	-.03157	.00790	-.02190	-.20100	.06240	.02356
GRADIENT	-.00004	-.00011	-.00008	-.00010	-.00010	-.00010	.00080	-.00218	-.01978	.00000	.00005

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TABULATED SOURCE DATA - 0A12

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0A62 826C9 F8J56M116E26V8R5X10

(RDW666) ( 09 NOV 73 )

## REFERENCE DATA

SREF = 4.4119 SQ.FT. XMEP = 43.5974 INCHES  
 LREF = 19.2299 INCHES YMEP = .0000 INCHES  
 BREF = 37.9359 INCHES ZMEP = 15.1875 INCHES  
 SCALE = .0405 SCALE

BETA = .000 BDFLAP = -12.000  
 ELEVON = .000 AILRON = .000  
 RUDDER = .000 SPDBRK = .000  
 MACX/L = .730

## PARAMETRIC DATA

RUN NO. 66/ 0 RN/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	ALPHA	CL	CD	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-4.190	-.25520	.04210	.02740	-.25760	.02335	-.00160	.00080	.00900	.06910	.01607
.200	-2.110	-.15470	.03320	.02930	-.15580	.02753	-.00160	.00060	.00900	.07210	.01666
.200	-1.070	-.10390	.03070	.03010	-.10450	.02881	-.00160	.00060	.00900	.07580	.01661
.200	-.030	-.05570	.02890	.03110	-.05580	.02895	-.00160	.00060	.00900	.08570	.01668
.200	.900	-.00380	.02860	.03260	-.00330	.02867	-.00160	.00050	.00900	.08690	.01668
.200	2.020	.04590	.02850	.03390	.04650	.02644	-.00160	.00040	.00900	.03840	.01701
.200	4.080	.14230	.03090	.03650	.14420	.02074	-.00150	.00060	.00900	.05580	.01675
.200	6.170	.24630	.03710	.03920	.24880	.01038	-.00150	.00050	.00900	.05940	.01743
.200	8.230	.34840	.04680	.03920	.35180	-.00157	-.00150	.00050	.00900	.06110	.01705
.200	10.340	.45720	.06580	.04120	.46160	-.01734	-.00150	.00020	.00900	.06190	.01859
.200	12.430	.56660	.09290	.04350	.57290	-.03319	-.00140	.00000	.00900	.06240	.01845
.200	14.490	.67920	.12360	.04360	.68850	-.05033	-.00160	-.00020	.00900	.06280	.01949
.200	16.500	.79150	.16350	.04460	.80520	-.06923	-.00140	.00040	.00900	.06310	.02010
.200	18.640	.89970	.20870	.04670	.91900	-.09054	-.00150	.00110	.00400	.06330	.02211
.200	20.790	1.00410	.26180	.04590	1.03170	-.11088	.00080	.00040	-.00100	.06350	.02426
.200	22.820	1.07790	.33660	.04740	1.12410	-.10781	.00980	.00310	-.02000	.06360	.02977
.200	24.860	1.12290	.40140	.04990	1.18760	-.10801	.00350	.00410	-.00700	.06360	.03699
.200	26.890	1.12890	.47090	.05350	1.21930	-.09541	-.00540	.00290	-.00300	.06300	.04346
.200	28.900	1.12780	.53110	.06200	1.24450	-.08022	.00050	-.00030	.00200	.06330	.04836
.200	30.920	1.14670	.59690	.07390	1.29550	-.07729	.00000	-.00020	.00600	.06310	.05141
.200	GRADIENT	.04818	-.00132	.00111	.04870	-.00029	.00001	-.00003	.00005	.00526	.00008

## REFERENCE DATA

SREF = 4.4119 SQ.FT. XMEP = 43.5974 INCHES  
 LREF = 19.2299 INCHES YMEP = .0000 INCHES  
 BREF = 37.9359 INCHES ZMEP = 15.1875 INCHES  
 SCALE = .0405 SCALE

ALPHA = .000 BDFLAP = -12.000  
 ELEVON = .000 AILRON = .000  
 RUDDER = .000 SPDBRK = .000  
 MACX/L = .730

## PARAMETRIC DATA

0A62 826C9 F8J56M116E26V8R5X10

(RDW667) ( 09 NOV 73 )

RUN NO. 67/ 0 RN/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CD	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-10.000	-.04260	.01530	.02400	-.04260	.01529	-.00950	.00640	.00800	.03600	.01887
.200	-5.040	-.04880	.02440	.02730	-.04880	.02441	-.00610	.00430	.00800	.08580	.01679
.200	.010	-.05500	.02770	.03170	-.05500	.02772	-.00140	.00050	.00600	.08640	.01748
.200	5.060	-.05530	.02350	.02720	-.05530	.02347	.00360	-.00320	-.00700	.08410	.01789
.200	10.110	-.04670	.01330	.02150	-.04670	.01333	.00860	-.00650	-.00300	.08210	.01995
.200	GRADIENT	-.00042	-.00009	-.00001	-.00042	-.00009	.00006	-.00074	-.02030	-.00017	.00011

0462 826C9 F8J564116226V85X10

(RDM066) ( 09 NOV 73 )

## REFERENCE DATA

REF = 4.4119 50-FT. WHP = 43.5974 INCHES  
 LREF = 19.2299 INCHES YREF = .0000 INCHES  
 BREF = 37.9359 INCHES ZREF = 15.1875 INCHES  
 SCALE = .0405 SCALE

## PARAMETRIC DATA

ALPHA = 10.000 BDFLAP = -12.000  
 ELEVON = .000 AILRON = .000  
 RUDDER = .000 SFD8RK = .000  
 MACX/L = .730

RUN NO. 68/ 0 BN/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CLM	CLN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-10.000	.46450	.03470	.46740	-.02656	-.01190	.02290	.20800	.06240	.02202
.200	-5.000	.49690	.03770	.46060	-.01976	-.00610	.01160	.10400	.06210	.01855
.200	-.010	.45570	.04190	.46020	-.01642	-.00140	.00040	.00400	.06180	.01794
.200	5.030	.45700	.03740	.46760	-.02042	.00270	-.01070	-.03400	.06220	.01914
.200	10.120	.46070	.03140	.46290	-.02930	.00900	-.02250	-.20200	.06270	.02375
GRADIENT	.00002	-.00007	-.00003	-.00000	-.00237	.00047	-.00221	-.01962	.00001	.00006

0462 826C9 F8J574116226V85X10

(RDM069) ( 09 NOV 73 )

## REFERENCE DATA

REF = 4.4119 50-FT. WHP = 43.5974 INCHES  
 LREF = 19.2299 INCHES YREF = .0000 INCHES  
 BREF = 37.9359 INCHES ZREF = 15.1875 INCHES  
 SCALE = .0405 SCALE

## PARAMETRIC DATA

BETA = .000 BDFLAP = -12.000  
 ELEVON = .000 AILRON = .000  
 RUDDER = .000 SFD8RK = .000  
 MACX/L = 1.290

RUN NO. 69/ 0 BN/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	ALPHA	CL	CLM	CLN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-4.190	-.26470	.04510	-.26730	.02569	-.00190	.00030	.00900	.06830	.01600
.200	-2.090	-.15840	.03660	-.15970	.03085	-.00180	.00020	.00500	.07080	.01639
.200	-1.060	-.10720	.03460	-.10780	.03267	-.00190	.00020	.00600	.07400	.01579
.200	.000	-.05490	.03180	-.05490	.03184	-.00180	.00030	.00400	.08310	.01640
.200	.980	-.00390	.03120	-.00340	.03134	-.00190	.00020	.00600	.36170	.01679
.200	2.040	.05040	.03140	.02930	.02936	-.00190	.00040	.00500	.04420	.01636
.200	4.170	.15430	.03270	.15640	.02276	-.00180	.00040	.00600	.05750	.01634
.200	6.190	.25510	.03460	.25600	.01270	-.00180	.00020	.00700	.06020	.01712
.200	8.330	.34290	.03780	.36670	-.00007	-.00190	.00000	.00600	.06140	.01674
.200	10.290	.46460	.03970	.47000	-.01344	-.00200	.00020	.00500	.06210	.01698
.200	12.420	.57520	.04150	.58240	-.02984	-.00190	-.00030	.00500	.06250	.01787
.200	14.600	.68640	.04700	.69620	-.05030	-.00190	-.00030	.00500	.06270	.01906
.200	16.560	.77060	.05740	.78340	-.06970	-.00170	.00000	.00500	.06250	.01909
.200	18.600	.89030	.06520	.86700	-.08970	-.00160	.00000	.00500	.06250	.02020
.200	20.670	.92870	.07020	.95200	-.10762	-.00170	.00000	.00500	.06240	.02161
.200	22.740	.99330	.06480	1.02930	-.11364	-.00120	-.00290	.00600	.06280	.02561
.200	24.760	1.03280	.06140	1.09400	-.09431	.01250	.00560	-.01400	.06310	.03529
.200	26.820	1.03730	.04070	1.12450	-.07471	.00040	-.00050	.00300	.06250	.04030
.200	28.840	1.06360	.06670	1.19330	-.08021	-.00110	-.00260	.00900	.06240	.04472
.200	30.920	1.13560	.09200	1.27240	-.08596	.00120	-.00330	.00800	.06250	.04882
GRADIENT	.05015	-.00132	.00120	.05072	-.00036	.00000	.00002	.00009	.00395	.00005

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TABULATED SOURCE DATA - Q472

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CASE 826C9 F8J57A116E26V085X10

(RDW070) ( 09 NOV 73 )

## REFERENCE DATA

REF = 4.4119 50-FT. 200P = 43.5974 INCHES  
 LREF = 19.2299 INCHES 100P = .0000 INCHES  
 BREF = 37.9359 INCHES 200P = 15.1875 INCHES  
 SCALE = .0405 SCALE

ALPHA = .000 BOFLAP = -12.000  
 ELEVON = .000 AILRON = .000  
 RUDDER = .000 SPDBRK = .000  
 MACX/L = 1.290

## PARAMETRIC DATA

RUN NO. 70/ 0 RM/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CLM	CDF	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-10.000	-.04310	.01890	.01890	-.04310	.01891	-.01270	.00090	.22800	.08060	.01743
.200	-9.000	-.05110	.02790	.02790	-.05110	.02754	-.00760	.00150	.11900	.08090	.01640
.200	-8.000	-.05660	.03290	.03290	-.05660	.03282	-.00180	.00260	.00400	.08250	.01607
.200	-7.000	-.05460	.02700	.02700	-.05460	.02701	.00470	-.00100	.10600	.08040	.01648
.200	-6.000	-.04660	.01620	.01620	-.04660	.01621	.01150	-.00140	-.22000	.07900	.01818
.200	-5.000	-.00037	.00007	.00007	-.00037	.00005	.00122	-.00025	-.02226	-.00005	.00001

CASE 826C9 F8J57A116E26V085X10

(RDW071) ( 09 NOV 73 )

## REFERENCE DATA

REF = 4.4119 50-FT. 200P = 43.5974 INCHES  
 LREF = 19.2299 INCHES 100P = .0000 INCHES  
 BREF = 37.9359 INCHES 200P = 15.1875 INCHES  
 SCALE = .0405 SCALE

ALPHA = 10.000 BOFLAP = -12.000  
 ELEVON = .000 AILRON = .000  
 RUDDER = .000 SPDBRK = .000  
 MACX/L = 1.290

## PARAMETRIC DATA

RUN NO. 71/ 0 RM/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CLM	CDF	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-10.100	-.47150	.03360	.08120	.47490	-.02435	-.01450	.01690	.22600	.06260	.01952
.200	-9.000	-.46950	.03600	.08810	.47410	-.01723	-.00750	.00850	.11500	.06240	.01710
.200	-8.000	-.46540	.04020	.07170	.47070	-.01301	-.00190	.00000	.00700	.06200	.01683
.200	-7.000	-.46660	.03640	.06650	.47090	-.01831	.00350	-.00790	-.10300	.06230	.01802
.200	-6.000	-.47090	.03150	.05680	.47350	-.02861	.01090	-.01710	-.21800	.06270	.02150
.200	-5.000	-.00029	.00004	-.00016	-.00032	-.00011	.00109	-.00163	-.02163	-.00001	.00009

Q462 826C9 F0J50M16E26V065X10

(RD4072) ( 03 NOV 73 )

## REFERENCE DATA

SHE7 = 4.4119 34.71. SHEP = 43.5974 INCHES  
 LNE7 = 19.2299 INCHES YNEP = .0000 INCHES  
 SHE7 = 37.9359 INCHES ZNEP = 15.1075 INCHES  
 SCALE = .0455 SCALE

## PARAMETRIC DATA

BETA = .000 BOFLAP = -12.000  
 ELEVEN = .000 AILRON = .000  
 RUDDER = .000 SFOBRK = .000  
 MACK/L = 1.290

RUN NO. 72/ 0 RV/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	ALPHA	CL	CDP	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.800	-4.110	-.24030	.04060	.02330	-.24260	.02331	-.00180	.00050	.00500	.06870	.01645
.800	-2.110	-.14050	.03470	.02480	-.14170	.02954	-.00170	.00060	.00500	.07160	.01652
.800	-1.060	-.08940	.03200	.02590	-.08990	.03043	-.00180	.00050	.00600	.07580	.01701
.800	-.020	-.04000	.03080	.02660	-.04020	.03045	-.00180	.00040	.00600	.08980	.01671
.800	1.000	.00320	.03020	.02810	.00980	.03006	-.00170	.00040	.00600	-.04010	.01707
.800	2.040	.06090	.03120	.02880	.16250	.02902	-.00180	.00040	.00700	.04800	.01621
.800	4.130	.16050	.03390	.03020	.16250	.02234	-.00160	.00040	.00500	.05830	.01682
.800	6.190	.25090	.04010	.03140	.26380	.01175	-.00170	.00060	.00500	.06080	.01773
.800	8.290	.36170	.05120	.03330	.36530	-.00118	-.00160	.00060	.00500	.06180	.01824
.800	10.350	.46680	.06850	.03460	.47150	-.00167	-.00150	.00030	.00500	.06250	.01926
.800	12.410	.57320	.09380	.03620	.58020	-.03146	-.00140	-.00010	.00300	.06320	.01923
.800	14.490	.68760	.12400	.03620	.68990	-.05026	-.00130	.00010	.00300	.06310	.01881
.800	16.560	.77300	.15510	.04420	.78520	-.07170	-.00110	-.00030	.00400	.06300	.01894
.800	18.650	.83440	.19150	.05050	.87460	-.09311	-.00210	.00110	.02700	.06340	.02557
.800	20.640	.88980	.23470	.04620	.95960	-.09005	.01100	.01140	-.02700	.06330	.03159
.800	22.710	.96560	.30910	.05060	1.01010	-.08768	-.00090	-.00600	-.01000	.06240	.03756
.800	24.700	.99760	.36640	.07320	.96860	-.04235	-.00090	-.00600	.01100	.06210	.04332
.800	26.750	.92240	.42160	.06440	1.01340	-.03473	-.00050	-.00600	.00700	.06210	.05041
.800	28.800	.97110	.48300	.08970	1.06370	-.04459	.00020	-.00410	.00600	.06230	.05428
.800	30.850	1.02960	.55740	.08960	1.16980	-.04941	-.00050	-.00250	.00600	.06470	.05002
GRADIENT	.04658	-.00062	-.00067	.03687	.04911	-.00013	.00002	-.00002	.00009	-.00470	.00002

Q462 826C9 F0J50M16E26V065X10

(RD4073) ( 09 NOV 73 )

## REFERENCE DATA

SHE7 = 4.4119 34.71. SHEP = 43.5974 INCHES  
 LNE7 = 19.2299 INCHES YNEP = .0000 INCHES  
 SHE7 = 37.9359 INCHES ZNEP = 15.1075 INCHES  
 SCALE = .0455 SCALE

## PARAMETRIC DATA

ALPHA = .000 BOFLAP = -12.000  
 ELEVEN = .000 AILRON = .000  
 RUDDER = .000 SFOBRK = .000  
 MACK/L = 1.290

RUN NO. 73/ 0 RV/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CDP	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.800	-10.110	-.02780	.01750	.01840	-.02780	.01751	-.00740	.00640	.22400	.08960	.01952
.800	-5.060	-.03180	.02740	.02200	-.03180	.02748	-.00520	.00460	.11500	.09160	.01762
.800	.000	-.03870	.03190	.02630	-.03870	.03196	-.00160	.00070	.00600	.09020	.01715
.800	5.050	-.03700	.02740	.02290	-.03700	.02743	.00190	-.00300	-.10300	.08800	.01771
.800	10.100	-.02940	.01670	.01620	-.02940	.01678	.00590	-.00590	-.21600	.08790	.01557
GRADIENT	-.00052	.00000	.00000	.00220	-.00052	-.00000	.00070	-.00075	-.02156	-.00470	.00001

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TABULATED SOURCE DATA - Q472

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Q462 826C9 F9J50A18E26V0R5X10

(RDJ074) ( 09 NOV 73 )

## REFERENCE DATA

REF = 4.4119 50.FT. ZMRP = 43.5074 INCHES  
 LMT = 19.2299 INCHES THRT = .0000 INCHES  
 REF = 37.9359 INCHES ZMRP = 15.1875 INCHES  
 SCALE = .0405 SCALE

RUN NO. 74/ 0 INV/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CDP	CLM	CM	CAF	CYN	CYL	CY	XCF/L	CAB
.800	-10.100	.47300	.05970	.02990	.47810	-.02804	-.00840	.02030	.21700	.06290	.02270
.800	-5.000	.47010	.06700	.03190	.47450	-.01844	-.00390	.01000	.10800	.06270	.01937
.800	.010	.46890	.06990	.03590	.47360	-.01333	-.00140	.00060	.00400	.06240	.01945
.800	5.090	.46870	.06640	.03790	.47500	-.01871	.00370	-.00920	-.09900	.06280	.01992
.800	10.130	.46860	.05760	.02740	.47250	-.02761	.00550	-.01890	-.21100	.06300	.02297
GRADIENT	-.00014	-.00006	-.00006	-.00006	-.00015	-.00003	.00046	-.00190	-.02047	.00003	.00005

## PARAMETRIC DATA

ALPHA = 10.000 BOFLAP = -12.000  
 ELEVON = .000 AILRON = .000  
 RUDDER = .000 SPCBRK = .000  
 MACX/L = 1.290

Q462 826C9 F9J50A18E26V0R5X10

(RDJ075) ( 09 NOV 73 )

## REFERENCE DATA

REF = 4.4119 50.FT. ZMRP = 43.5074 INCHES  
 LMT = 19.2299 INCHES THRT = .0000 INCHES  
 REF = 37.9359 INCHES ZMRP = 15.1875 INCHES  
 SCALE = .0405 SCALE

RUN NO. 75/ 0 INV/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	ALPHA	CL	CDP	CLM	CM	CAF	CYN	CYL	CY	XCF/L	CAB
.800	-4.100	-.24190	.04330	.02660	-.24440	.02564	-.00170	.00040	.00500	.06920	.01645
.800	-2.000	-.13930	.03960	.03090	-.14050	.03051	-.00180	.00030	.00400	.07330	.01721
.800	-.990	-.08000	.03590	.03340	-.08060	.03197	-.00180	.00040	.00400	.07950	.01684
.800	-.030	-.04130	.03170	.03590	-.04130	.03175	-.00180	.00050	.00400	.09710	.01757
.800	1.017	.00900	.03090	.03790	.00990	.03075	-.00180	.00050	.00400	-.08070	.01808
.800	2.050	.03960	.03130	.04030	.06370	.02913	-.00180	.00050	.00300	.04190	.01817
.800	4.130	.16190	.03460	.04570	.16400	.02284	-.00160	.00060	.00300	.03490	.01855
.800	6.270	.36590	.04210	.04960	.27090	.01256	-.00170	.00060	.00300	.05840	.01881
.800	10.370	.47420	.07270	.05310	.36900	.00006	-.00160	.00060	.00300	.03990	.01996
.800	12.460	.56100	.09640	.05670	.47930	-.01361	-.00160	.00060	.00300	.06180	.01942
.800	14.500	.69100	.12720	.06050	.58820	-.03118	-.00130	.00050	.00100	.06150	.02070
.800	16.600	.79960	.16600	.06090	.61370	-.04981	-.00150	.00050	.00100	.06120	.02146
.800	18.670	.90040	.21050	.06010	.62040	-.06932	-.00150	.00040	.00100	.06200	.02197
.800	20.750	.98710	.27310	.05830	1.01980	-.08441	-.00090	.00090	.00090	.06240	.02213
.800	22.760	1.03490	.33960	.06110	1.06560	-.09434	.00550	.00350	-.01200	.06280	.02223
.800	24.870	1.07370	.42180	.06350	1.11510	-.08717	.00460	.01170	-.02600	.06310	.02729
.800	26.860	1.09550	.47950	.07560	1.15150	-.06094	.00010	.00520	-.00790	.06310	.03252
.800	28.920	1.09990	.47950	.07710	1.19420	-.06767	.00030	.00730	-.01060	.06280	.03781
.800	31.010	1.10970	.61030	.07930	1.21650	-.05363	.00120	.00540	-.00800	.06280	.04449
GRADIENT	.04873	-.00106	-.00106	-.00210	.04929	-.00035	.00001	.00002	-.00014	-.00629	.00004

## PARAMETRIC DATA

BETA = .000 BOFLAP = -12.000  
 ELEVON = .000 AILRON = .000  
 RUDDER = .000 SPCBRK = .000  
 MACX/L = .000

Q462 826C9 F8J5M416Z26V085X10

(RDJ076) ( 09 NOV 73 )

## REFERENCE DATA

SREF = 4.4119 30.FT. ZREF = 43.5974 INCHES  
 LREF = 19.2259 INCHES YREF = .0000 INCHES  
 BREF = 37.9359 INCHES ZREF = 15.1075 INCHES  
 SCALE = .0405 SCALE

## PARAMETRIC DATA

ALPHA = .000 BOFLAP = -12.000  
 ELEVON = .000 AILRON = .000  
 RUDDER = .000 SPDBRK = .000  
 NACK/L = .000

RUN NO. 76/ 0 RM/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CLM	CLN	CAF	CYN	CBL	CY	XCF/L	CAB
.800	-10.120	-.08820	.01710	-.02740	.01716	-.00450	.00740	.22300	.10090	.02017
.800	-5.040	-.03550	.03120	-.03550	.02660	-.00400	.00550	.11650	.09750	.01834
.800	.000	-.04050	.03140	-.04050	.03139	-.00190	.00050	.00600	.09790	.01780
.800	5.090	-.03710	.02540	-.03710	.02641	.00120	-.00390	-.10200	.09670	.01861
.800	10.090	-.03170	.01700	-.03170	.01701	.00400	-.00750	-.21500	.05630	.01910
GRADIENT	-.02016	-.00202	.02256	-.00016	-.00002	.00059	-.00068	-.02156	-.00008	.00003

Q462 826C9 F8J5M416Z26V085X10

(RDJ077) ( 09 NOV 73 )

## REFERENCE DATA

SREF = 4.4119 30.FT. ZREF = 43.5974 INCHES  
 LREF = 19.2259 INCHES YREF = .0000 INCHES  
 BREF = 37.9359 INCHES ZREF = 15.1075 INCHES  
 SCALE = .0405 SCALE

## PARAMETRIC DATA

ALPHA = 10.000 BOFLAP = -12.000  
 ELEVON = .000 AILRON = .000  
 RUDDER = .000 SPDBRK = .000  
 NACK/L = .000

RUN NO. 77/ 0 RM/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CLM	CLN	CAF	CYN	CBL	CY	XCF/L	CAB
.800	-10.090	.07950	.06160	.40290	-.02561	-.00850	.02350	.22000	.06170	.02319
.800	-5.090	.07720	.06990	.48160	-.01804	-.00400	.01190	.11000	.06120	.02105
.800	.080	.07090	.07200	.47820	-.01349	-.00170	.00060	.00500	.06080	.02004
.800	5.090	.07320	.06970	.47960	-.01787	.00020	-.01060	-.09950	.06120	.02106
.800	10.110	.07640	.06020	.48140	-.02681	.00580	-.02270	-.21700	.06170	.02285
GRADIENT	-.00020	-.00202	-.00005	-.00020	.00002	.00042	-.00229	-.02069	-.00000	.00000

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TABULATED SOURCE DATA - 0A72

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0A62 B26C9 F8J48W16E26V8R5X10

(RDW078) ( 09 NOV 73 )

## REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.9974 INCHES  
 LREF = 19.2299 INCHES YMRP = .0000 INCHES  
 BREF = 37.9359 INCHES ZMRP = 15.1875 INCHES  
 SCALE = .0405 SCALE

BETA = .000 BDFLAP = -12.000  
 ELEVON = .000 AILRON = .000  
 RUDDER = .000 SPDBRK = .000  
 NACX/L = .730

RUN NO. 78/ 0 RN/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	ALPHA	CL	CD	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-4.160	-.25470	.04280	.03590	-.25710	.02423	-.00200	.00110	.00400	.07530	.01626
.200	-2.090	-.15890	.03460	.03720	-.15920	.02887	-.00190	.00080	.00400	.07380	.01665
.200	-1.060	-.10800	.03190	.03810	-.10860	.02991	-.00220	.00080	.00500	.07810	.01707
.200	-.020	-.06580	.03070	.03940	-.06080	.03070	-.00200	.00080	.00400	.08840	.01623
.200	.970	-.01060	.02910	.03980	-.01010	.02927	-.00210	.00090	.00400	.20960	.01778
.200	2.010	.03840	.02910	.04030	.03940	.02779	-.00200	.00070	.00400	.00400	.01709
.200	4.090	.13610	.03060	.04160	.13800	.02180	-.00180	.00040	.00400	.05410	.01819
.200	6.180	.23660	.03740	.04240	.23930	.01170	-.00200	.00020	.00400	.05860	.01739
.200	8.240	.34090	.04810	.04280	.34430	-.00126	-.00210	.00020	.00400	.06060	.01803
.200	10.310	.44340	.06540	.04350	.44800	-.01499	-.00210	.00020	.00400	.06160	.01800
.200	12.420	.55620	.08950	.04280	.56250	-.03224	-.00170	.00030	.00300	.06240	.01944
.200	14.480	.67000	.12300	.04170	.67950	-.04847	-.00160	.00030	.00200	.06290	.02020
.200	16.570	.79430	.16590	.04000	.80860	-.06760	-.00210	.00030	.00200	.06330	.02166
.200	18.670	.92030	.21240	.03880	.92290	-.08761	-.00210	.00130	.00200	.06360	.02290
.200	20.760	1.01510	.29170	.02690	1.05260	-.08715	.01010	.00670	-.02200	.06420	.02673
.200	22.830	1.10360	.35390	.03180	1.15440	-.10208	.01090	.00800	-.02700	.06420	.02947
.200	24.880	1.13990	.40820	.04120	1.20580	-.10934	.00790	.00430	-.01800	.06390	.03678
.200	26.910	1.15610	.48070	.04250	1.24850	-.09470	.00160	-.00230	-.00200	.06390	.04356
.200	28.970	1.14700	.53790	.05350	1.26490	-.08504	-.00090	.00090	-.00100	.06360	.04916
.200	30.940	1.16310	.60430	.06530	1.30830	-.07987	-.00050	-.00360	.00400	.06330	.05419
GRADIENT	.04750	-.00145	.00071	.00071	.04802	-.00038	.00002	-.00087	-.00002	-.00065	.00021

## REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.9974 INCHES  
 LREF = 19.2299 INCHES YMRP = .0000 INCHES  
 BREF = 37.9359 INCHES ZMRP = 15.1875 INCHES  
 SCALE = .0405 SCALE

ALPHA = .000 BDFLAP = -12.000  
 ELEVON = .000 AILRON = .000  
 RUDDER = .000 SPDBRK = .000  
 NACX/L = .730

RUN NO. 79/ 0 RN/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CD	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-10.080	-.04900	.01670	.02990	-.04900	.01677	-.00980	.00710	.20500	.08760	.02002
.200	-5.060	-.05470	.02640	.03410	-.05480	.02641	-.00670	.00500	.07000	.08810	.01723
.200	.020	-.06020	.02980	.03860	-.06120	.02984	-.00190	.00080	.03630	.08880	.01758
.200	5.040	-.06000	.02540	.03400	-.06000	.02545	.00290	-.00350	-.09500	.08690	.01802
.200	10.080	-.05200	.01520	.03020	-.05200	.01523	.00780	-.00820	-.20100	.08660	.02045
GRADIENT	-.00053	-.00010	.00001	.00001	-.00052	-.00009	.00095	-.00084	-.02000	-.00021	.00008

0A62 B26C9 F8J48W16E26V8R5X10

(RDW079) ( 09 NOV 73 )



OA62 B26C9 F8J48W116E26V8R5X10

(RDW080) ( 99 NOV 73 )

## REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.9974 INCHES  
 LREF = 19.2299 INCHES YMRP = .0000 INCHES  
 BREF = 37.9359 INCHES ZMRP = 15.1875 INCHES  
 SCALE = .0405 SCALE

RUN NO. 80/ 0 RN/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

## PARAMETRIC DATA

ALPHA = 9.000 BDFLAP = -12.000  
 ELEVON = .000 AILRON = .000  
 RUDDER = .000 SPD8RK = .000  
 NACX/L = .730

MACH	BETA	CL	CLM	CDF	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-10.060	.19640	.03340	.02180	.19760	.00418	-.01150	.01530	.20700	.05890	.02104
.200	-5.050	.19060	.03780	.02980	.19250	.01267	-.00640	.00800	.10500	.05790	.01828
.200	.010	.18580	.04130	.03410	.18810	.01735	-.00170	.00050	.00500	.05710	.01721
.200	5.030	.18770	.03770	.02890	.18960	.01209	.00270	-.00720	-.09500	.05780	.01950
.200	10.120	.19410	.03330	.02020	.19510	.00278	.00850	-.01420	-.20000	.05890	.02209
GRADIENT	-.00029	-.00009	-.00001	-.00009	-.00029	-.00006	.00090	-.00151	-.01984	-.00001	.00012

## REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.9974 INCHES  
 LREF = 19.2299 INCHES YMRP = .0000 INCHES  
 BREF = 37.9359 INCHES ZMRP = 15.1875 INCHES  
 SCALE = .0405 SCALE

RUN NO. 81/ 0 RN/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

## PARAMETRIC DATA

ALPHA = 10.000 BDFLAP = -12.000  
 ELEVON = .000 AILRON = .000  
 RUDDER = .000 SPD8RK = .000  
 NACX/L = .730

MACH	BETA	CL	CLM	CDF	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-10.060	.45390	.03480	.05680	.45680	-.02548	-.01170	.02290	.20300	.06240	.02370
.200	-5.060	.44740	.03960	.06270	.45140	-.01852	-.00630	.01160	.10300	.06190	.01920
.200	.000	.44450	.04320	.06460	.44890	-.01612	-.00180	.00030	.00500	.06160	.01960
.200	5.030	.44690	.03950	.06050	.45050	-.02051	.00250	-.01050	-.09400	.06190	.02085
.200	10.080	.44780	.03470	.05300	.45010	-.02807	.00770	-.02190	-.19600	.06230	.02503
GRADIENT	-.00005	-.00022	-.00001	-.00009	-.00009	-.00020	.00087	-.00219	-.01952	-.00000	.00016

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TABULATED SOURCE DATA - QAT2

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QAG2 B26C9 F8J46W116E26V0R5X10

(RDW082) ( 09 NOV 73 )

## REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES  
 LREF = 19.2299 INCHES YMRP = .0000 INCHES  
 BREF = 37.9359 INCHES ZMRP = 15.1875 INCHES  
 SCALE = .0405 SCALE

## PARAMETRIC DATA

ALPHA = 15.000 BDFLAP = -12.000  
 ELEVON = .000 AILRON = .000  
 RUDDER = .000 SPDBRK = .000  
 NACX/L = .730

RUN NO. 82/ 0 RN/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CLW	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.200	-10.040	.73330	.13320	.02810	.74270	-.06613	-.01060	.03030	.19400	.06380	.02619
.200	-5.050	.73090	.13920	.03520	.74150	-.06169	-.00760	.01590	.10300	.06340	.02096
.200	.000	.73490	.14420	.04080	.74670	-.05794	-.00170	.00060	.06400	.06320	.02132
.200	5.040	.73450	.13790	.03640	.74460	-.06391	.00370	-.01440	-.09900	.06340	.02327
.200	10.110	.73720	.13030	.02870	.74520	-.07196	.00650	-.02900	-.19000	.06370	.02779
GRADIENT	.00036	-.00013	.00012	.00031	-.00022	.00112	-.00300	-.00000	-.02002	-.00000	.00023

QAG2 B26C9 F8J46W116E26V0R5X10

(RDW083) ( 09 NOV 73 )

## REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES  
 LREF = 19.2299 INCHES YMRP = .0000 INCHES  
 BREF = 37.9359 INCHES ZMRP = 15.1875 INCHES  
 SCALE = .0405 SCALE

## PARAMETRIC DATA

BETA = .000 BDFLAP = -12.000  
 ELEVON = 15.000 AILRON = .000  
 RUDDER = .000 SPDBRK = .000  
 NACX/L = .730

RUN NO. 83/ 0 RN/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	ALPHA	CL	CLW	CLM	CN	CAF	CYN	CBL	CY	XCP/L	CAB
.200	-4.010	.02940	.03850	-.09330	.02660	.04051	-.00110	.00210	.00200	.19410	.02290
.200	-1.950	.12490	.03890	-.09200	.12350	.04319	-.00100	.00240	.00300	.09260	.02347
.200	-.900	.17310	.04090	-.09060	.17250	.04367	-.00090	.00240	.00300	.08450	.02245
.200	.110	.21830	.04360	-.08950	.21840	.04315	-.00090	.00260	.00200	.08030	.02213
.200	1.140	.26740	.04600	-.08860	.26830	.04070	-.00090	.00260	.00200	.07730	.02340
.200	2.170	.31200	.05050	-.08640	.31370	.03863	-.00090	.00270	.00300	.07530	.02253
.200	4.230	.40140	.06030	-.08250	.40480	.03058	-.00100	.00220	.00300	.07130	.02309
.200	6.310	.50720	.07610	-.08500	.51250	.01994	-.00110	.00120	.00400	.07050	.02365
.200	8.420	.62370	.09900	-.09120	.63140	.00663	-.00120	.00080	.00200	.06900	.02468
.200	10.480	.74860	.12940	-.09900	.75960	-.00898	-.00080	.00070	.00200	.06800	.02453
.200	12.580	.86370	.16720	-.10130	.87940	-.02506	-.00060	.00040	.00200	.06900	.02537
.200	14.660	.97900	.21280	-.10450	1.00100	-.04184	-.00100	.00020	.00100	.06860	.02654
.200	16.750	1.09330	.26500	-.10590	1.12330	-.06110	-.00110	-.00040	.00100	.06830	.02783
.200	18.820	1.19920	.32330	-.10510	1.23930	-.08098	-.00050	.00100	-.00000	.06810	.03374
.200	20.890	1.27980	.41110	-.10820	1.34220	-.07243	.00140	.01560	-.03800	.06760	.03860
.200	22.960	1.32990	.49090	-.09540	1.41600	-.06681	.00330	.00320	-.00900	.06700	.04462
.200	24.980	1.33490	.54120	-.07190	1.43860	-.07311	.00110	-.00030	-.00300	.06630	.05292
.200	27.000	1.29840	.58330	-.04500	1.42170	-.06978	-.00110	-.00560	.00900	.06570	.05945
.200	29.010	1.26470	.62730	-.02040	1.41020	-.06472	-.00190	-.00560	.01000	.06520	.06412
.200	31.000	1.26300	.68880	-.00140	1.37740	-.06026	-.00120	-.00640	.01000	.06320	.06001
GRADIENT	.04525	.00267	.00130	.00130	.04600	-.00120	.00051	.00003	.00007	-.01221	.00001

DATE 30 APR 74

TABULATED SOURCE DATA - QNT2

(RDWJ84) ( 09 NOV 73 )

OM62 826C9 F0J46M10E226V0R5X1D

PARAMETRIC DATA

REFERENCE DATA

SREF = 4.4119 SQ.FT. XMRP = 43.5974 INCHES  
 LREF = 19.2299 INCHES YMRP = .0000 INCHES  
 BREF = 37.9359 INCHES ZMRP = 15.1875 INCHES  
 SCALE = .0405 SCALE  
 BETA = .000 BDFLAP = -12.000  
 ELEVON = 10.000 AILRON = .000  
 LADDER = .000 SFD8RK = .000  
 NACX/L = .730

RUN NO. 84/ 0 RN/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	ALPHA	CL	CD	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-4.050	-.05470	.03470	-.05420	-.05700	.03081	-.00190	.00120	.00400	.03020	.02089
.200	-1.990	.04400	.03290	-.05360	.04290	.03445	-.00210	.00130	.00500	.11110	.02144
.200	-.940	.09320	.03370	-.05330	.09260	.03525	-.00200	.00110	.00600	.08640	.02106
.200	.060	.14270	.03440	-.05310	.14260	.03421	-.00190	.00090	.00500	.07890	.02137
.200	1.110	.19020	.03640	-.05270	.19090	.03269	-.00190	.00080	.00600	.07530	.02163
.200	2.140	.23970	.03870	-.05190	.24100	.02978	-.00200	.00070	.00700	.07310	.02225
.200	4.210	.33360	.04780	-.04990	.33620	.02317	-.00210	.00010	.00700	.07060	.02168
.200	6.290	.43130	.06000	-.04860	.43530	.01241	-.00200	.00000	.00700	.06930	.02194
.200	8.380	.54200	.07930	-.05160	.54850	-.05059	-.00200	.00040	.00600	.06860	.02219
.200	10.440	.65770	.10430	-.05490	.66570	-.03225	-.00150	.00000	.00500	.06820	.02336
.200	12.540	.76640	.13740	-.05610	.77800	-.04939	-.00120	.00040	.00200	.06780	.02344
.200	14.670	.88430	.17940	-.05850	.90100	-.06832	-.00160	.00080	.00200	.06730	.02442
.200	16.790	.99810	.22820	-.05930	1.02160	-.08836	-.00160	.00240	.00100	.06710	.02546
.200	18.760	1.10970	.28410	-.06010	1.14210	-.08182	.01330	.01370	-.03400	.06720	.02628
.200	20.870	1.20580	.37230	-.06960	1.25930	-.09406	.01330	.01310	-.03400	.06680	.03510
.200	22.940	1.28020	.43970	-.05880	1.35040	-.08671	.00240	.00360	-.00900	.06630	.04231
.200	24.960	1.29090	.50530	-.04200	1.38360	-.08224	.00040	-.00370	.00200	.06590	.04913
.200	26.980	1.28090	.56000	-.02620	1.39550	-.07448	-.00140	-.00040	.00200	.06530	.05667
.200	28.990	1.24590	.60520	-.05340	1.38320	-.07051	-.00100	-.00390	.00700	.06480	.06311
.200	30.990	1.24520	.66590	.01390	1.41040	-.00098	-.00000	-.00014	.00037	.06172	.06012
.200		.04710	.00154	.00049	.04769						

GRADIENT

DATE 30 APR 74

TABULATED SOURCE DATA - QAT2

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OM62 026C9 F0J00W116Z26V085X10

(RDM085) ( 99 NOV 73 )

## REFERENCE DATA

SHEP = 4.4119 SQ.FT. XMEP = 43.5974 INCHES  
 LREF = 19.2299 INCHES YMEP = .0000 INCHES  
 BREF = 37.9339 INCHES ZMEP = 15.1875 INCHES  
 SCALE = .0405 SCALE

## PARAMETRIC DATA

BETA = .000 BDFLAP = -12.000  
 ELEVON = -5.000 AILRON = .000  
 RUDDER = .000 SPDBRK = .000  
 NACK/L = .730

RUN NO. 85/ 0 RN/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	ALPHA	CL	CDP	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-4.220	-3.5490	.05310	.00030	-.35790	.02685	-.00170	.00300	.00300	.07340	.01398
.200	-2.160	-.25950	.04150	.08140	-.26090	.03169	-.00190	.00300	.00400	.07660	.01454
.200	-1.150	-.20939	.03750	.08190	-.21000	.03341	-.00170	.00310	.00300	.07950	.01454
.200	-.070	-.15990	.03380	.08290	-.16000	.03360	-.00170	.00290	.00300	.08420	.01515
.200	.960	-.11230	.03130	.08350	-.11180	.03322	-.00170	.00290	.00300	.09270	.01505
.200	1.970	-.06330	.02950	.08430	-.06230	.03172	-.00150	.00290	.00300	.11490	.01538
.200	4.050	.03690	.02850	.08630	.03680	.02588	-.00170	.00280	.00300	-.01650	.01599
.200	6.110	.13340	.03150	.08760	.13600	.01713	-.00150	.00260	.00300	.04140	.01582
.200	8.180	.23490	.03890	.08910	.23800	.00510	-.00150	.00250	.00200	.05140	.01629
.200	10.260	.33950	.05240	.09070	.34340	-.00892	-.00170	.00230	.00200	.05540	.01677
.200	12.360	.45030	.07380	.09210	.45570	-.02427	-.00140	.00220	.00200	.05770	.01716
.200	14.430	.56210	.10250	.09110	.56990	-.04087	-.00110	.00210	.00200	.05930	.01850
.200	16.510	.68190	.14040	.08930	.69370	-.05916	-.00150	.00210	.00200	.06040	.01972
.200	18.620	.79540	.18510	.08880	.81280	-.07866	-.00160	.00660	.00200	.06110	.02078
.200	20.700	.90850	.23760	.07730	.94090	-.08023	.00800	.00860	.01800	.06210	.02300
.200	22.780	1.00710	.31780	.07980	1.05160	-.09688	.00930	.00810	-.02400	.06240	.02610
.200	24.820	1.05640	.37380	.08510	1.11580	-.10421	.00860	.00480	-.01600	.06240	.03303
.200	26.850	1.07790	.43250	.08270	1.15750	-.10093	.00830	.00530	-.01400	.06250	.04092
.200	28.860	1.08810	.50490	.08650	1.19660	-.08355	-.00020	.00190	-.00200	.06250	.04511
.200	30.920	1.10710	.57130	.09580	1.24340	-.07888	.00310	-.00230	.00500	.06230	.05023
.200	GRADIENT	.04735	-.00296	.00072	.04794	-.00009	.00002	-.00003	-.00005	-.00622	.00024

DATE 30 APR 74

TABULATED SOURCE DATA - QAT2

0462 826C9 F8J40W115E26V4R5X10

(RDW086) ( 09 NOV 73 )

## REFERENCE DATA

SREF = 4.4119 SQ.FT. XREF = 43.9974 INCHES  
 LREF = 19.2299 INCHES YREF = .0000 INCHES  
 BREF = 37.9359 INCHES ZREF = 15.1875 INCHES  
 SCALE = .0405 SCALE

## PARAMETRIC DATA

BETA = .000 BDFLAP = -12.000  
 ELEVON = 5.000 AILRON = .000  
 RUDDER = .000 SPDBRK = .000  
 NACK/L = .730

RUN NO. 86/ 0 RV/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	ALPHA	CL	CD	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-4.120	-.16300	.03650	-.00440	-.16520	.02470	-.00180	.00170	.00300	.06420	.01909
.200	-2.050	-.06550	.03110	-.00340	-.06650	.02881	-.00170	.00150	.00200	.06320	.01938
.200	-1.110	-.01610	.02990	-.00290	-.01660	.02968	-.00170	.00150	.00300	.05870	.01948
.200	.010	.03150	.02980	-.00260	.03150	.02982	-.00160	.00120	.00400	.06830	.01895
.200	1.030	.08300	.02980	-.00200	.08350	.02833	-.00160	.00150	.00200	.06610	.02008
.200	2.060	.13070	.03150	-.00120	.13170	.02680	-.00170	.00120	.00400	.06550	.01917
.200	4.130	.22850	.03670	-.00020	.23040	.02016	-.00140	.00110	.00300	.06520	.01982
.200	6.220	.32940	.04580	.00050	.33240	.00984	-.00150	.00100	.00400	.06510	.01995
.200	8.300	.43790	.06160	-.00060	.44210	-.00326	-.00160	.00090	.00400	.06520	.02042
.200	10.370	.54150	.08100	-.00080	.54710	-.01779	-.00150	.00080	.00300	.06520	.02076
.200	12.440	.65660	.10870	-.00210	.66460	-.03534	-.00120	.00090	.00200	.06530	.02265
.200	14.540	.76880	.14670	-.00280	.78100	-.05100	-.00100	.00060	.00000	.06540	.02432
.200	16.630	.88860	.19160	-.00460	.90630	-.07083	-.00130	.00030	.00100	.06540	.02536
.200	18.730	1.00110	.24340	-.00660	1.02630	-.09101	-.00130	.00140	.00100	.06570	.02922
.200	20.790	1.10380	.32560	-.01020	1.14750	-.08755	.01190	.01020	-.03000	.06550	.03137
.200	22.870	1.18350	.39140	-.01020	1.24260	-.09945	.01210	.01050	-.02900	.06510	.04001
.200	24.920	1.21350	.44600	.00360	1.28840	-.10688	.01080	.00510	-.01900	.06490	.04511
.200	26.930	1.21560	.51680	.01010	1.31790	-.08994	.00120	.00030	-.00300	.06440	.05300
.200	28.970	1.20290	.57190	.02600	1.32940	-.08232	-.00070	.00030	.00000	.06410	.05824
.200	30.970	1.17700	.63440	.04090	1.36560	-.07668	-.00100	-.00340	.00300	.06410	.06008
.200	GRADIENT	.04754	.00003	.00051	.04806	-.00054	.00004	-.00007	.00007	.00037	

OAG2 B26C9 F0J40M16E26V0R5X10

(RD4087) ( 09 NOV 73 )

## REFERENCE DATA

SEEP = 4.4119 SQ.FT. ZMRP = 43.5974 INCHES  
 LEAF = 19.2299 INCHES YMRP = .0000 INCHES  
 BREF = 37.9359 INCHES ZMRP = 15.1875 INCHES  
 SCALE = .0405 SCALE

## PARAMETRIC DATA

BETA = .000 BDFLAP = -12.000  
 ELEVON = -10.000 AILRON = .000  
 RUDDER = .000 SPDBRK = .000  
 MACX/L = .730

RUN NO. 07/ 0 RN/L = 1.42 GRADIENT INTERVAL = -.6.00/ 6.00

MACH	ALPHA	CL	CD	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-4.280	-.45190	.06740	.12230	-.45560	.03347	-.00230	.00170	.00500	.07500	.01084
.200	-2.220	-.35660	.05260	.12400	-.35840	.03880	-.00240	.00170	.00500	.07790	.01200
.200	-1.200	-.30940	.04670	.12420	-.31030	.04026	-.00240	.00150	.00500	.07990	.01231
.200	-.160	-.26100	.04100	.12480	-.26110	.04032	-.00230	.00140	.00500	.08280	.01327
.200	.070	-.21140	.03700	.12640	-.21080	.04028	-.00230	.00140	.00500	.08720	.01346
.200	1.910	-.16150	.03400	.12710	-.16030	.03944	-.00230	.00130	.00500	.09440	.01339
.200	3.960	-.06490	.02990	.12860	-.06270	.03434	-.00220	.00150	.00300	.14070	.01387
.200	6.050	.03510	.02980	.13070	.03800	.02596	-.00210	.00120	.00400	-.06100	.01419
.200	8.120	.13360	.03460	.13180	.13710	.01540	-.00210	.00090	.00300	.02980	.01364
.200	10.190	.23520	.04440	.13440	.23930	.00206	-.00220	.00080	.00400	.04450	.01453
.200	12.300	.34470	.06210	.13710	.35000	-.01277	-.00210	.00090	.00300	.05070	.01464
.200	14.370	.45350	.08660	.13890	.46080	-.02870	-.00180	.00080	.00200	.05410	.01569
.200	16.440	.57240	.12030	.13800	.58350	-.04659	-.00210	.00070	.00300	.05650	.01752
.200	18.540	.68550	.16160	.13650	.70510	-.06474	-.00210	.00050	.00400	.05800	.01845
.200	20.620	.79950	.20960	.12750	.82210	-.08346	-.00190	.00020	.00400	.05910	.02085
.200	22.720	.90100	.28140	.10200	.93980	-.08844	.00720	.00490	-.01600	.06020	.02583
.200	24.790	.95970	.33690	.13020	1.01250	-.09662	.00710	.00250	-.01100	.06040	.02959
.200	26.810	1.00090	.40040	.12390	1.07350	-.09407	.00790	.00330	-.01200	.06090	.04057
.200	28.830	1.01580	.47060	.12210	1.11680	-.07769	.00060	.00170	-.00500	.06110	.04271
.200	30.870	1.04790	.54050	.12740	1.17680	-.07384	.00130	-.00140	-.00200	.06120	.04718
.200	GRADIENT	.04704	-.00455	.00078	.04776	.00011	.00002	-.00004	-.00018	.00700	.00037

DATE 30 APR 74 TABULATED SOURCE DATA - QAT2

(RDJ088) ( 09 NOV 73 )

QAT2 026C9 F0J48W110E26V08R5X10

PARAMETRIC DATA

REFERENCE DATA

SREF = 4.4119 SQ.FT. YMRP = 43.5974 INCHES  
 LREF = 19.2299 INCHES YMRP = .0000 INCHES  
 BREF = 37.9359 INCHES ZMRP = 15.1875 INCHES  
 SCALE = .0405 SCALE

BETA =  
 ELEVON =  
 RUDDER =  
 MACX/L =

.000 BDFLAP = -12.000  
 .000 AILRON = 10.000  
 .000 SPDBRK = .000  
 .730

RUN NO. 88/ 5 RM/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	ALPHA	CL	CD	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-4.170	-2.4950	.05070	.03320	-2.5260	.03245	.00390	.03750	-.02200	.07000	.01764
.200	-2.100	-1.5280	.04210	.03390	-1.5430	.03650	.00440	.03770	-.02600	.07330	.01813
.200	-1.070	-1.0380	.03960	.03430	-1.0450	.03765	.00470	.03800	-.02700	.07750	.01841
.200	-.050	-.05420	.03730	.03540	-.05420	.03734	.00500	.03790	-.02800	.08920	.01884
.200	-.970	-.00470	.03720	.03610	-.00410	.03736	.00530	.03820	-.03000	.08640	.01804
.200	2.030	.04620	.03650	.03710	.04750	.03491	.00560	.03850	-.03200	.03640	.01886
.200	4.090	.14140	.03940	.03890	.14380	.02919	.00640	.03900	-.03500	.05320	.01851
.200	6.170	.23870	.04480	.04080	.24220	.01886	.00660	.03930	-.03600	.05900	.01943
.200	8.260	.34100	.05720	.04000	.34570	.00761	.00710	.04030	-.04000	.06090	.01887
.200	10.310	.44840	.07460	.04060	.45460	-.00686	.00780	.04160	-.04500	.06190	.01985
.200	12.410	.55800	.09950	.04110	.56630	-.02275	.00870	.04270	-.04800	.06250	.02033
.200	14.500	.67480	.13360	.03990	.68680	-.03961	.00920	.04380	-.05300	.06300	.02209
.200	16.600	.79300	.17690	.03880	.81050	-.05710	.00960	.04360	-.05500	.06340	.02225
.200	18.670	.90720	.22650	.03690	.93180	-.07628	.00960	.04410	-.05600	.06370	.02320
.200	20.750	1.01830	.30170	.02540	1.05920	-.07867	.01830	.04930	-.07600	.06430	.02628
.200	22.830	1.10350	.36270	.03280	1.15730	-.09376	.01650	.04710	-.07400	.06410	.02969
.200	24.880	1.13980	.41700	.04270	1.20950	-.10136	.01350	.03910	-.05800	.06390	.03844
.200	26.880	1.13550	.48570	.04770	1.23240	-.08025	.00250	.02890	-.03200	.06370	.04558
.200	28.910	1.12970	.53920	.05690	1.24950	-.07437	-.00060	.02220	-.01700	.06350	.05014
.200	30.950	1.14130	.60300	.07250	1.28890	-.06989	-.00170	.01280	-.00200	.06310	.05741
.200	GRADIENT	.04755	-.00136	.00072	.04821	-.00038	.00030	.00018	-.00155	.00391	.00011

DATE 30 APR 74

TABULATED SOURCE DATA - QAT2

PAGE 51

QAB2 B26C9 F8J48M116Z28V8R5X10

(RDM089) ( 09 NOV 73 )

## REFERENCE DATA

SHEF = 4.4119 SQ.FT. YMEP = 43.5974 INCHES  
 LREF = 19.2299 INCHES YMEP = .0000 INCHES  
 BREF = 37.9359 INCHES YMEP = 15.1875 INCHES  
 SCALE = .0405 SCALE

## PARAMETRIC DATA

BETA = .000 BDFLAP = -12.000  
 ELEVON = -20.000 AILRON = .000  
 RUDDER = .000 SPDBEK = .000  
 MACX/L = .750

RUN NO. 89/ 0 EN/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	ALPHA	CL	CD	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-4.360	-.59730	.09940	.18500	-.60320	.03366	-.00220	.00290	.00700	.07650	.00904
.200	-2.280	-.51170	.07990	.18880	-.51450	.05953	-.00250	.00280	.00600	.07870	.00956
.200	-1.260	-.46690	.07230	.19790	-.46840	.06203	-.00240	.00240	.00600	.08020	.00956
.200	-.210	-.41920	.06460	.19120	-.41950	.06307	-.00240	.00210	.00600	.08190	.00976
.200	.810	-.36930	.05860	.19210	-.36840	.06384	-.00230	.00190	.00500	.08440	.00954
.200	1.860	-.32010	.05200	.19210	-.31820	.06237	-.00230	.00180	.00400	.08740	.01020
.200	3.890	-.22590	.04250	.19410	-.22250	.05785	-.00200	.00180	.00300	.09730	.01197
.200	5.960	-.12670	.03770	.19550	-.12210	.05075	-.00200	.00160	.00300	.12410	.01195
.200	8.040	-.02860	.03740	.19740	-.02300	.04109	-.00200	.00140	.00400	.37970	.01210
.200	10.110	.06930	.04200	.20320	.07560	.02918	-.00220	.00160	.00200	-.03360	.01247
.200	12.220	.16910	.05220	.20790	.17630	.01522	-.00210	.00160	.00300	.02180	.01310
.200	14.270	.26550	.07060	.21130	.27760	.00222	-.00180	.00170	.00400	.03710	.01289
.200	16.330	.37580	.09640	.21550	.38780	-.01320	-.00190	.00130	.00400	.04470	.01502
.200	18.440	.48560	.12880	.21760	.50140	-.03134	-.00160	.00150	.00400	.04920	.01693
.200	20.500	.59460	.16550	.21850	.61620	-.05001	-.00170	.00120	.00300	.05210	.01880
.200	22.610	.70340	.23290	.21250	.73890	-.05544	.00520	.00240	-.01000	.05460	.02161
.200	24.680	.77430	.28120	.20930	.82100	-.06780	.00560	.00170	-.01000	.05580	.02650
.200	26.710	.82490	.34230	.19730	.89070	-.06504	.00470	.00330	-.01000	.05700	.03345
.200	28.750	.86510	.41320	.18570	.93720	-.05393	.00590	.00270	-.00400	.05800	.03689
.200	30.820	.91780	.48340	.18840	1.03590	-.05521	.00590	-.00010	.00000	.05850	.04145
GRADIENT		.04596	-.00595	.00792	.04697	-.00034	.00005	-.00012	-.00039	.00417	.00031



(R0W090) ( 09 NOV 73 )

## REFERENCE DATA

SHEP = 4.4119 SQ.FT. XREF = 43.5974 INCHES  
 LREF = 19.2299 INCHES YREF = .0000 INCHES  
 BREF = 37.9359 INCHES ZREF = 15.1875 INCHES  
 SCALE = .0405 SCALE

RUN NO. 90/ 0 RN/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

## PARAMETRIC DATA

BETA = .000 BDFLAP = -12.000  
 ELEWON = .000 AILRON = .000  
 RUDDER = .000 SPDBRK = .000  
 MACX/L = .730

MACH	ALPHA	CL	CDX	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-4.180	-.28490	.04460	.04930	-.28740	.02372	-.00220	.00130	.00500	.07150	.01539
.200	-1.970	-.16400	.03520	.04280	-.16320	.02956	-.00210	.00110	.00300	.07470	.01648
.200	-1.060	-.11390	.03260	.03980	-.11450	.03056	-.00210	.00100	.00400	.07800	.01663
.200	-.030	-.05460	.03110	.03740	-.05460	.03112	-.00200	.00090	.00400	.09040	.01667
.200	1.000	.00110	.03050	.03480	.00160	.03051	-.00190	.00070	.00400	-.70950	.01626
.200	2.030	.05940	.03040	.03150	.06040	.02834	-.00180	.00060	.00400	.04600	.01667
.200	4.100	.17280	.03370	.02650	.17480	.02129	-.00180	.00040	.00400	.05970	.01639
.200	6.220	.28880	.03930	.02040	.29130	.00775	-.00180	.00040	.00400	.06260	.01781
.200	8.280	.40680	.05130	.01560	.40990	-.00783	-.00180	.00040	.00200	.06380	.01804
.200	10.350	.52030	.07020	.01240	.52440	-.02443	-.00180	.00040	.00300	.06430	.01738
.200	12.450	.64910	.09640	.00700	.65470	-.04586	-.00110	.00110	.00100	.06480	.01977
.200	14.550	.76560	.13910	.00530	.77600	-.05775	-.00470	-.00230	.00600	.06490	.02072
.200	16.610	.85250	.19260	.00890	.87200	-.05912	-.00380	-.00210	.00500	.06480	.02271
.200	18.670	.94080	.24400	.01120	.96940	-.07009	-.00380	-.00350	.00500	.06470	.02367
.200	20.750	1.03340	.31950	.02350	1.07960	-.06744	-.00050	-.00120	.00600	.06500	.02833
.200	22.830	1.11440	.38770	.03570	1.17750	-.07518	-.00020	-.00270	.00000	.06500	.03168
.200	24.890	1.18580	.45590	.03740	1.26760	-.08563	.00080	-.00110	-.00200	.06490	.03690
.200	26.930	1.18040	.50810	.01720	1.28250	-.08174	.00000	-.00000	.00000	.06470	.04271
.200	28.930	1.18090	.56350	.03070	1.30610	-.07823	.00070	-.00180	.00500	.06430	.05063
.200	30.950	1.17530	.62210	.04640	1.32790	-.07098	-.00100	-.00470	.01200	.06390	.05383
GRADIENT		.05541	-.00129	-.00280	.05595	-.00028	.00006	-.00011	-.00005	-.02143	.00009

(R0W091) ( 09 NOV 73 )

## PARAMETRIC DATA

ALPHA = .000 BDFLAP = -12.000  
 ELEWON = .000 AILRON = .000  
 RUDDER = .000 SPDBRK = .000  
 MACX/L = .730

RUN NO. 91/ 0 RN/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

## REFERENCE DATA

SHEP = 4.4119 SQ.FT. XREF = 43.5974 INCHES  
 LREF = 19.2299 INCHES YREF = .0000 INCHES  
 BREF = 37.9359 INCHES ZREF = 15.1875 INCHES  
 SCALE = .0405 SCALE

MACH	BETA	CL	CDX	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-10.060	-.04220	.01780	.02910	-.04220	.01783	-.00990	.00690	.20300	.09060	.01931
.200	-5.050	-.05100	.02730	.03110	-.05110	.02732	-.00650	.00480	.10500	.08900	.01665
.200	-.010	-.05580	.03100	.03720	-.05580	.03105	-.00170	.00090	.00400	.08970	.01663
.200	5.060	-.05290	.02570	.03320	-.05290	.02570	.00030	-.00350	-.09600	.08830	.01807
.200	10.110	-.04400	.01610	.02840	-.04400	.01615	.00810	-.00640	-.20000	.08890	.01962
GRADIENT		-.00019	-.00016	.00001	-.00018	-.00016	.00096	-.00082	-.01998	-.00007	.00014

DATE 30 APR 74 TABULATED SOURCE DATA - Q472

(RD4092) ( 09 NOV 73 )

Q462 826C9 F8J404118E26V8R5110

PARAMETRIC DATA

ALPHA = 10.000 BDFLAP = -12.000  
ELEVON = .000 AILRON = .000  
RUDDER = .000 SPDBRK = .000  
MACX/L = .730

REFERENCE DATA

REF = 4.4119 SQ.FT. XREF = 43.5974 INCHES  
LREF = 19.2299 INCHES YREF = .0000 INCHES  
BREF = 37.9359 INCHES ZREF = 15.1875 INCHES  
SCALE = .0405 SCALE

RUN NO. 92/ 0 RW/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	COF	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-10.000	.53010	.06330	.00410	.53200	-.03322	-.00310	.02220	.00200	.06490	.02307
.200	-5.070	.52570	.06870	.00870	.52950	-.02706	-.00750	.01160	.00200	.06460	.01961
.200	.000	.52250	.07100	.01210	.52690	-.02336	-.00260	.00020	.00500	.06430	.01847
.200	5.010	.52830	.06750	.00810	.52980	-.02891	.00190	-.01070	-.09400	.06460	.02007
.200	10.090	.52730	.05920	.00250	.52930	-.03702	.00720	-.02170	-.19600	.06500	.02587
GRADIENT	.00006	.00014	-.00014	-.00006	.00003	-.00016	.00091	-.00221	-.01944	-.00000	.00005

(RD4093) ( 09 NOV 73 )

Q462 826C9 F8 W10E26V8R5X9

PARAMETRIC DATA

BETA = .000 BDFLAP = -12.000  
ELEVON = .000 AILRON = .000  
RUDDER = .000 SPDBRK = .000

REFERENCE DATA

REF = 4.4119 SQ.FT. XREF = 43.5974 INCHES  
LREF = 19.2299 INCHES YREF = .0000 INCHES  
BREF = 37.9359 INCHES ZREF = 15.1875 INCHES  
SCALE = .0405 SCALE

RUN NO. 93/ 0 RW/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	ALPHA	CL	COF	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-4.180	-.24950	.03370	.05070	-.25130	.01547	-.00190	.00090	.00500	.07260	.01643
.200	-2.090	-.13720	.02740	.04330	-.13020	.02245	-.00200	.00080	.00500	.07670	.01649
.200	-1.070	-.04010	.02490	.04000	-.04060	.02341	-.00190	.00060	.00600	.08340	.01728
.200	.000	-.02210	.02410	.03690	-.02210	.02416	-.00180	.00040	.00400	.12640	.01728
.200	.990	.03200	.02400	.03330	.03320	.02346	-.00190	.00050	.00500	.02820	.01763
.200	2.130	.09300	.02450	.03040	.09460	.02101	-.00170	.00060	.00400	.05330	.01752
.200	4.180	.20530	.02420	.02420	.20680	.01309	-.00170	.00040	.00300	.06080	.01806
.200	6.210	.31670	.03560	.01750	.31870	.00111	-.00170	.00020	.00400	.06310	.01825
.200	8.360	.43470	.04800	.01230	.43710	-.01563	-.00190	.00020	.00400	.06410	.01913
.200	10.390	.54410	.06640	.00820	.54720	-.03246	-.00200	.00060	.00400	.06460	.01940
.200	12.460	.66760	.09500	.00180	.67220	-.05118	-.00140	.00110	.00300	.06510	.01996
.200	14.540	.77330	.13960	-.00100	.78360	-.05911	-.00350	-.00180	.00000	.06520	.02103
.200	16.600	.86490	.19170	-.00500	.90280	-.06914	-.00310	.00070	.00400	.06540	.02297
.200	18.750	.97760	.25550	-.00620	1.01020	-.07300	.00250	.00070	-.00600	.06540	.02466
.200	20.800	1.10460	.32930	-.02010	1.14930	-.08431	.00280	.00770	-.00900	.06580	.02830
.200	22.890	1.22630	.41370	-.03280	1.29060	-.09588	.00170	.00380	-.00900	.06610	.03051
.200	25.040	1.32320	.50560	-.03760	1.41020	-.10575	-.00060	.00290	-.00200	.06620	.03566
.200	27.020	1.36640	.57700	-.02310	1.47940	-.10688	.00000	.00150	-.03000	.06590	.04062
.200	29.050	1.27990	.59650	-.01180	1.48860	-.09926	.00410	.01510	-.03000	.06490	.05298
.200	30.920	1.12120	.59680	.05370	1.26860	-.06422	.00190	.00180	-.00800	.06350	.06325
GRADIENT	.05448	.05448	-.00066	-.00315	.03489	-.00029	.00093	-.00064	-.00025	-.00330	.00020

QAG2 B26C9 F0 W10E26V0R5K9

(RDW094) ( 09 NOV 73 )

## REFERENCE DATA

SREF = 4.4119 50.FT. XMRP = 43.5974 INCHES  
 LREF = 19.2299 INCHES YMRP = .0000 INCHES  
 BREF = 37.9359 INCHES ZMRP = 15.1075 INCHES  
 SCALE = .0405 SCALE

## PARAMETRIC DATA

ALPHA = .000 BDFLAP = -12.000  
 ELEVON = .000 AILERON = .000  
 RUDDER = .000 SPDBRK = .000

RUN NO. 94/ 0 RN/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CD	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-10.090	-.00430	.01320	.02550	-.00430	.01322	-.01170	.00630	.17400	.27910	.01937
.200	-5.090	-.01320	.02100	.03160	-.01320	.02099	-.00760	.00370	.09000	.15310	.01706
.200	-.030	-.02330	.02440	.03640	-.02330	.02442	-.00170	.00360	.00400	.12260	.01735
.200	5.020	-.01650	.01870	.03160	-.01650	.01677	.00410	-.00470	-.00100	.12850	.01852
.200	10.040	-.02640	.01090	.02430	-.02640	.01099	.01010	-.00630	-.17000	.23320	.02044
GRADIENT	-.00053	-.00023	-.00023	.00002	-.00053	-.00022	.00116	-.00103	-.01701	-.00245	.00015

## REFERENCE DATA

SREF = 4.4119 50.FT. XMRP = 43.5974 INCHES  
 LREF = 19.2299 INCHES YMRP = .0000 INCHES  
 BREF = 37.9359 INCHES ZMRP = 15.1075 INCHES  
 SCALE = .0405 SCALE

## PARAMETRIC DATA

ALPHA = 10.000 BDFLAP = -12.000  
 ELEVON = .000 AILERON = .000  
 RUDDER = .000 SPDBRK = .000

RUN NO. 95/ 0 RN/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CD	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-10.090	.55590	.06270	-.00170	.55800	-.03801	-.01530	.02500	.17600	.06530	.02194
.200	-5.090	.54710	.06510	.00450	.54990	-.03481	-.00620	.01350	.08900	.06490	.01954
.200	.000	.54320	.06660	.00918	.54630	-.03242	-.00170	.00050	.00300	.06460	.01975
.200	5.000	.54790	.06360	.00390	.55040	-.03636	.00450	-.01230	-.08200	.06490	.02053
.200	10.090	.55510	.05890	-.00300	.55660	-.04239	.01240	-.02530	-.17400	.06540	.02454
GRADIENT	.00006	-.00015	-.00007	-.00007	.00006	-.00015	.00126	-.00256	-.01700	-.00050	.00010

Q462 B26C9 F8 W116226V8R5X9

(R040296) ( 09 NOV 73 )

## REFERENCE DATA

SAMP = 4.4119 SQ.FT. INCRP = 43.5974 INCHES  
 LREF = 19.2299 INCHES YREF = .0000 INCHES  
 BREF = 37.9359 INCHES ZREF = 15.1875 INCHES  
 SCALE = .0405 SCALE

## PARAMETRIC DATA

BETA = .000 BDFLAP = -12.000  
 ELEVON = .000 AILERON = .000  
 RUDDER = .000 SPDRBK = .000

RUN NO. 96/ 0 EN/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	ALPHA	CL	CDP	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-4.150	-.22150	.03170	.03820	-.22320	.01565	-.00180	.00080	.00400	.07160	.01659
.200	-2.000	-.12690	.02980	.04010	-.12760	.02123	-.00190	.00060	.00400	.07670	.01706
.200	-.990	-.07560	.02400	.04540	-.07620	.02275	-.00180	.00090	.00400	.08480	.01727
.200	-.010	-.02970	.02350	.04050	-.02970	.02350	-.00170	.00060	.00400	.11540	.01673
.200	1.040	.01960	.02260	.04050	.02000	.02224	-.00170	.00080	.00400	-.00950	.01769
.200	2.060	.06670	.02340	.04190	.06680	.02105	-.00190	.00050	.00500	.04210	.01746
.200	4.140	.16210	.02640	.04240	.16360	.01462	-.00170	.00040	.00500	.05560	.01762
.200	6.220	.26120	.03350	.04250	.26330	.00498	-.00190	.00030	.00400	.05920	.01803
.200	8.320	.36300	.04620	.04210	.36590	-.00704	-.00180	.00060	.00400	.06090	.01793
.200	10.320	.46110	.06390	.04190	.46490	-.02564	-.00170	.00030	.00400	.06180	.01783
.200	12.420	.57020	.08810	.03960	.57500	-.03665	-.00180	.00010	.00300	.06260	.01857
.200	14.520	.68950	.12320	.03460	.69840	-.05365	-.00170	-.00100	.00300	.06330	.01980
.200	16.540	.81910	.17160	.02720	.83470	-.06939	-.00290	.00040	.00400	.06400	.02159
.200	18.890	.94240	.22620	.01920	.96500	-.08574	-.00270	-.00020	.00400	.06440	.02350
.200	20.760	1.05140	.30410	.00870	1.09090	-.08881	.00140	.00470	-.00400	.06490	.02553
.200	22.950	1.16690	.36670	-.00100	1.22750	-.09744	.00050	.00170	-.00200	.06520	.03046
.200	24.940	1.25640	.47360	-.00700	1.33930	-.10046	-.00110	.00030	.00000	.06540	.03408
.200	26.990	1.31050	.54640	.00210	1.41530	-.10776	-.00110	-.00060	.00300	.06510	.04217
.200	28.970	1.24510	.57390	.03760	1.36730	-.10121	.00130	.00870	-.01700	.06410	.05035
.200	30.990	1.09340	.57710	.07940	1.23460	-.06644	.00230	.00080	-.01200	.06280	.06130
GRADIENT		.04636	-.00063	.00036	.04675	-.00011	.00001	-.00004	.00014	-.00523	.00015

Q462 B26C9 F8 W116226V8R5X9

(R040297) ( 09 NOV 73 )

## REFERENCE DATA

SAMP = 4.4119 SQ.FT. INCRP = 43.5974 INCHES  
 LREF = 19.2299 INCHES YREF = .0000 INCHES  
 BREF = 37.9359 INCHES ZREF = 15.1875 INCHES  
 SCALE = .0405 SCALE

## PARAMETRIC DATA

ALPHA = .000 BDFLAP = -12.000  
 ELEVON = .000 AILERON = .000  
 RUDDER = .000 SPDRBK = .000

RUN NO. 97/ 0 EN/L = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CDP	CLM	CN	CAF	CYN	CBL	CY	XCF/L	CAB
.200	-10.100	-.00970	.01450	.02900	-.00970	.01454	-.01200	.01090	.17300	.17450	.01872
.200	-5.070	-.02150	.02160	.03470	-.02150	.02165	-.00790	.00720	.09000	.12420	.01674
.200	.000	-.02720	.02440	.03960	-.02720	.02448	-.00220	.00140	.00400	.11910	.01752
.200	5.020	-.02250	.01940	.03520	-.02250	.01981	.00370	-.00430	-.00200	.12380	.01889
.200	10.090	-.01460	.01210	.02800	-.01460	.01217	.00920	-.00680	-.01700	.13760	.02050
GRADIENT		-.00005	-.00018	.00005	-.00005	-.00018	.00115	-.00114	-.01765	-.00006	.00021

DATE 30 APR 74 TABULATED SOURCE DATA - Q472

(RDW290) ( 09 NOV 73 )

Q462 828C9 F8 W110E26V0R519

PARAMETRIC DATA

ALPHA = 10.000 BDFLAP = -12.000  
ELEVON = .000 AILRON = .000  
RUDDER = .000 SPDBRK = .000

REFERENCE DATA

SECF = 4.4119 SA.FT. YMEP = 43.5974 INCHES  
LECF = 19.2299 INCHES YMEP = .0000 INCHES  
BEEF = 37.9359 INCHES ZMEP = 15.1875 INCHES  
SCALE = .0495 SCALE

RUN NO. 90/ 0 RWL = 1.42 GRADIENT INTERVAL = -6.00/ 6.00

MACH	BETA	CL	CD	CM	CAF	CY	CBL	CY	XCF/L	CAB
.200	-10.070	.47305	.05420	.47570	-.02759	-.01920	.02350	.17700	.06270	.02082
.200	-5.060	.46755	.06030	.47080	-.02465	-.00820	.01330	.09000	.06220	.01369
.200	.000	.45970	.06330	.46360	-.02020	-.00190	.00050	.00500	.06180	.01803
.200	5.010	.46990	.05930	.46810	-.02509	.00410	-.01250	-.08000	.06220	.01979
.200	10.090	.47040	.05350	.47240	-.03179	.01150	-.02340	-.17200	.06270	.02417
GRADIENT	-.00025	-.00010	-.00010	-.00027	-.00004	.00122	-.00256	-.01689	-.00000	.00001